

Bridge to 6th Grade

Answer Key



Summer Math Homework



Monday

$$\begin{array}{r} 1) \quad 53 \\ \times 5 \\ \hline 265 \end{array}$$

$$\begin{array}{r} 2) \quad 26 \\ \times 6 \\ \hline 156 \end{array}$$

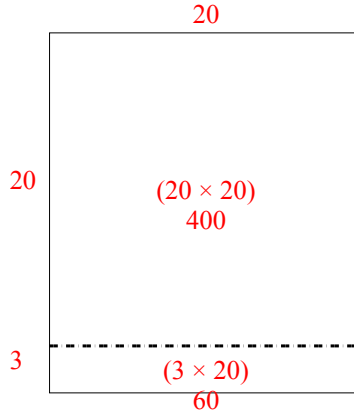
$$\begin{array}{r} 3) \quad 72 \\ \times 4 \\ \hline 288 \end{array}$$

$$\begin{array}{r} 4) \quad 97 \\ \times 2 \\ \hline 194 \end{array}$$

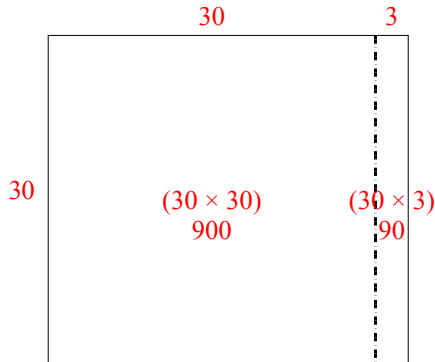
$$\begin{array}{r} 5) \quad 72 \\ \times 3 \\ \hline 216 \end{array}$$

6) Use the visual model to solve: 23×20

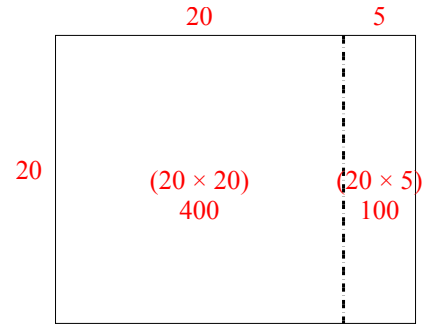
Break 23
into
 $20 + 3$



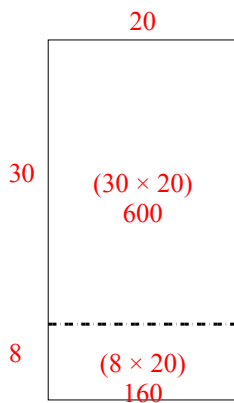
7) Use the visual model to solve: 30×33



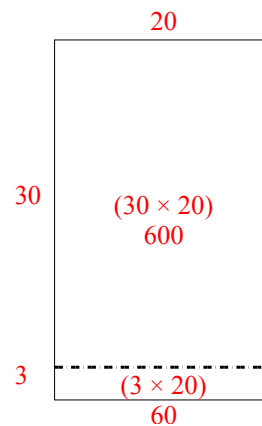
8) Use the visual model to solve: 20×25



9) Use the visual model to solve: 38×20



10) Use the visual model to solve: 33×20





Tuesday

$$\begin{array}{r} 1) \quad 57 \\ \times 4 \\ \hline 228 \end{array}$$

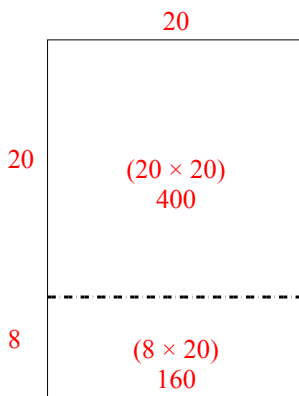
$$\begin{array}{r} 2) \quad 28 \\ \times 8 \\ \hline 224 \end{array}$$

$$\begin{array}{r} 3) \quad 56 \\ \times 4 \\ \hline 224 \end{array}$$

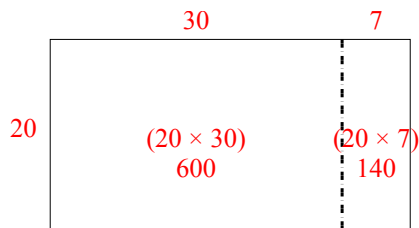
$$\begin{array}{r} 4) \quad 28 \\ \times 7 \\ \hline 196 \end{array}$$

$$\begin{array}{r} 5) \quad 11 \\ \times 9 \\ \hline 99 \end{array}$$

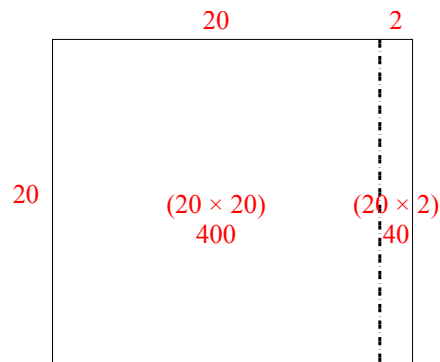
6) Use the visual model to solve: 28×20



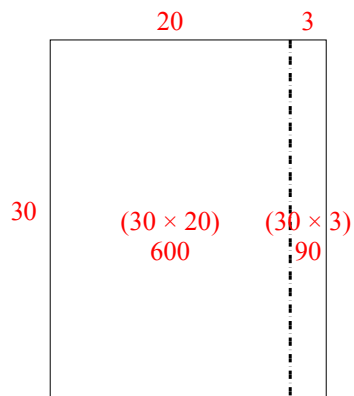
7) Use the visual model to solve: 20×37



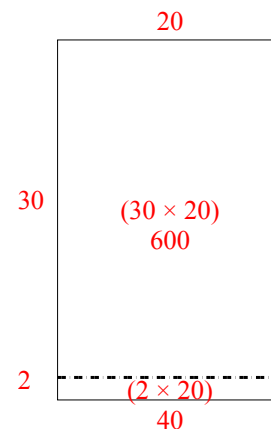
8) Use the visual model to solve: 20×22



9) Use the visual model to solve: 30×23

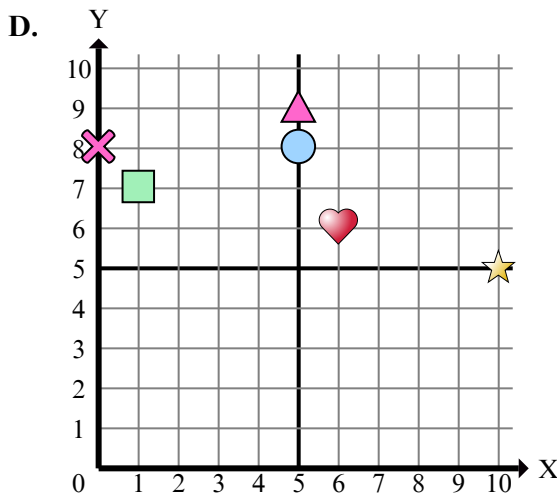
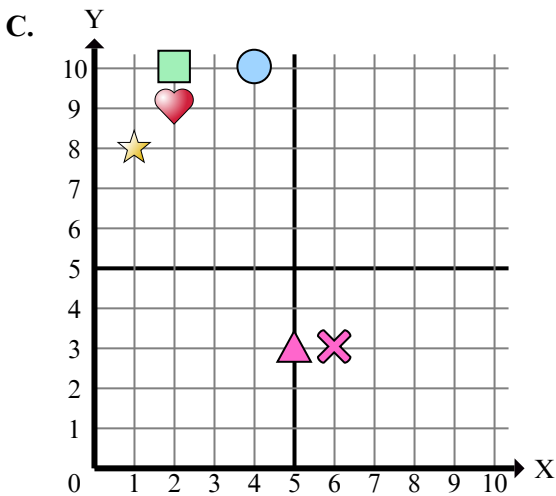
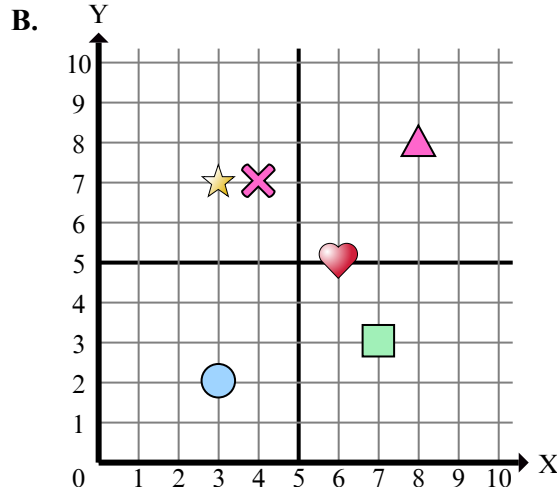
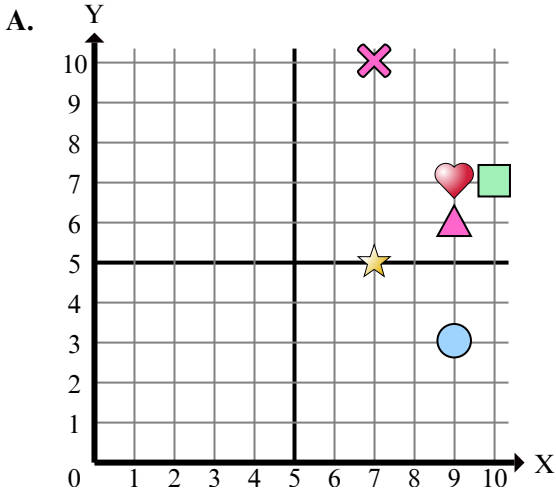


10) Use the visual model to solve: 32×20





Determine which coordinate plane answers each question.



- 1) Which coordinate plane has a shape at (0 , 8)?
- 2) Which coordinate plane has a shape at (6 , 3)?
- 3) Which coordinate plane has a shape at (10 , 7)?
- 4) Which coordinate plane has a shape at (6 , 6)?
- 5) Which coordinate plane has a shape at (7 , 5)?
- 6) Which coordinate plane has a shape at (10 , 5)?
- 7) Which coordinate plane has a shape at (7 , 10)?
- 8) Which coordinate plane has a shape at (5 , 8)?
- 9) Which coordinate plane has a shape at (4 , 10)?
- 10) Which coordinate plane has a shape at (2 , 9)?
- 11) Which coordinate plane has a shape at (1 , 8)?
- 12) Which coordinate plane has a shape at (9 , 7)?
- 13) Which coordinate plane has a shape at (2 , 10)?
- 14) Which coordinate plane has a shape at (6 , 5)?
- 15) Which coordinate plane has a shape at (5 , 3)?

(over > up)
 → ↑

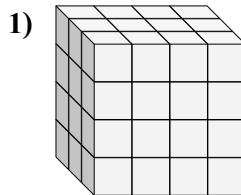
Answers

1. **D**
2. **C**
3. **A**
4. **D**
5. **A**
6. **D**
7. **A**
8. **D**
9. **C**
10. **C**
11. **C**
12. **A**
13. **C**
14. **B**
15. **C**

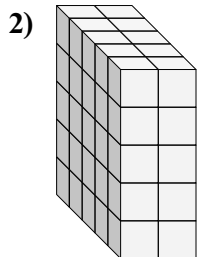


Find the length, width and height of the rectangular prism. Then find the volume.

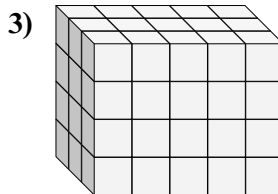
Volume is all the space inside the cube.
Each cube is one unit cube



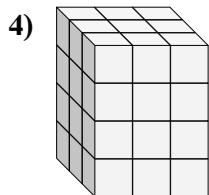
$$3 \times 4 \times 4 = 48 \text{ units cubed}$$



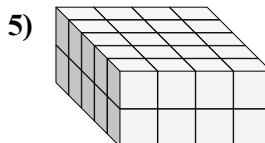
$$5 \times 2 \times 5 = 50 \text{ units cubed}$$



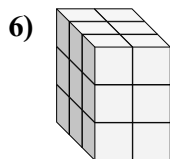
$$3 \times 5 \times 4 = 60 \text{ units cubed}$$



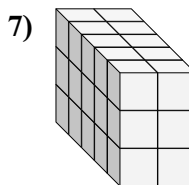
$$3 \times 3 \times 4 = 36 \text{ units cubed}$$



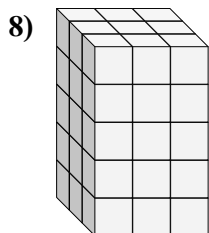
$$5 \times 4 \times 2 = 40 \text{ units cubed}$$



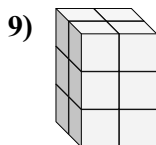
$$3 \times 2 \times 3 = 18 \text{ units cubed}$$



$$5 \times 2 \times 3 = 30 \text{ units cubed}$$



$$3 \times 3 \times 5 = 45 \text{ units cubed}$$



$$2 \times 2 \times 3 = 12 \text{ units cubed}$$



Friday

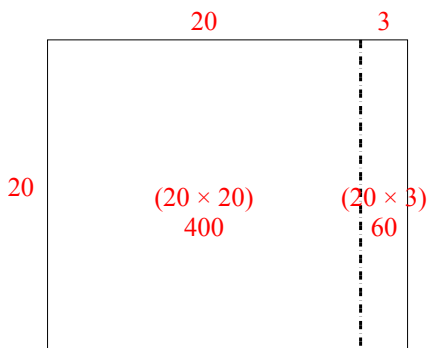
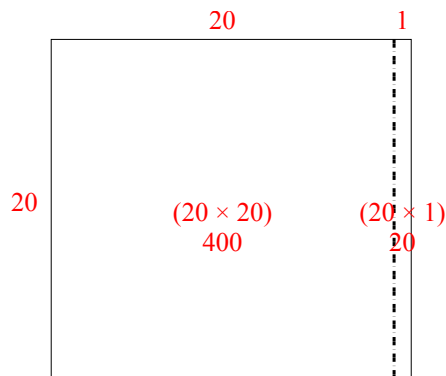
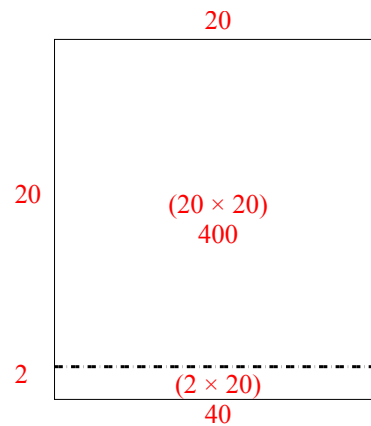
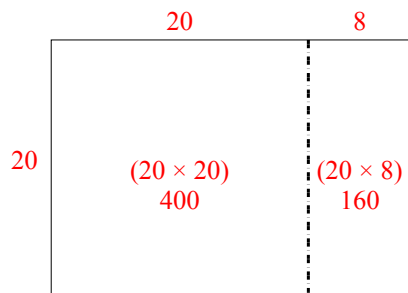
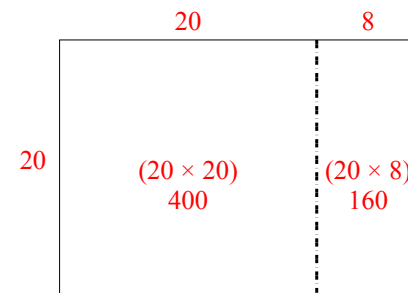
$$\begin{array}{r} 1) \quad 94 \\ \times 3 \\ \hline 282 \end{array}$$

$$\begin{array}{r} 2) \quad 22 \\ \times 6 \\ \hline 132 \end{array}$$

$$\begin{array}{r} 3) \quad 70 \\ \times 5 \\ \hline 350 \end{array}$$

$$\begin{array}{r} 4) \quad 17 \\ \times 9 \\ \hline 153 \end{array}$$

$$\begin{array}{r} 5) \quad 18 \\ \times 3 \\ \hline 54 \end{array}$$

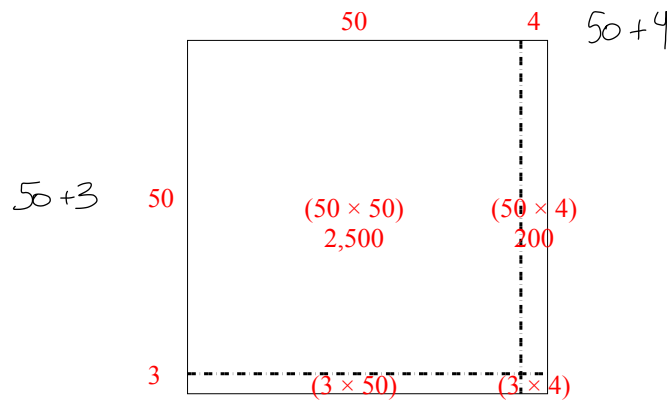
6) Use the visual model to solve: 20×23 7) Use the visual model to solve: 20×21 8) Use the visual model to solve: 22×20 9) Use the visual model to solve: 20×28 10) Use the visual model to solve: 20×28 



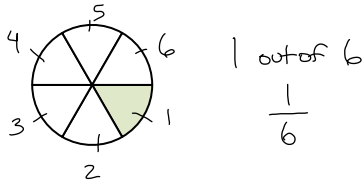
Monday

1)
$$\begin{array}{r} 5,179 \\ \times \quad 3 \\ \hline 15,537 \end{array}$$

2) Use the visual model to solve.
 $53 \times 54 =$



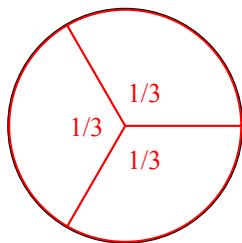
3) Write the shaded amount as a fraction of the whole.



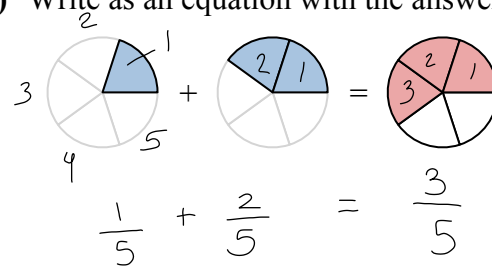
4)
$$? + \frac{5}{9} = 1$$

$$\frac{4}{9} + \frac{5}{9} = \frac{9}{9} = 1$$

5) Split the shape into 3 equal parts and label each part.



6) Write as an equation with the answer.

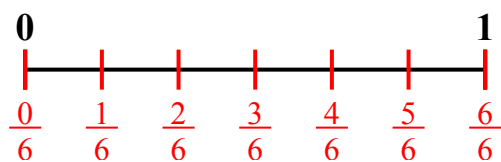


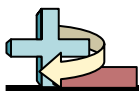
7) Solve. Write improper fractions as whole numbers.

$$\frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

or

8) Partition into 6 equal pieces and label each partition.





9) Use the visual model to solve.

$$1\frac{2}{5} + 2\frac{4}{5} =$$

10) Use the visual model to solve.

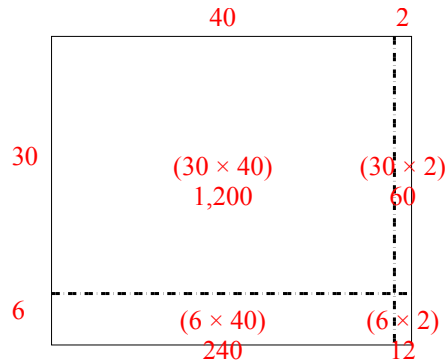
$$5\frac{4}{5} - 2\frac{3}{5} =$$



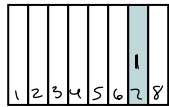
Tuesday

1)
$$\begin{array}{r} 5,936 \\ \times \quad 5 \\ \hline 29,680 \end{array}$$

2) Use the visual model to solve.
 $36 \times 42 =$



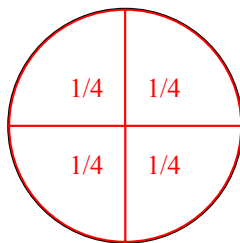
3) Write the shaded amount as a fraction of the whole. 4)



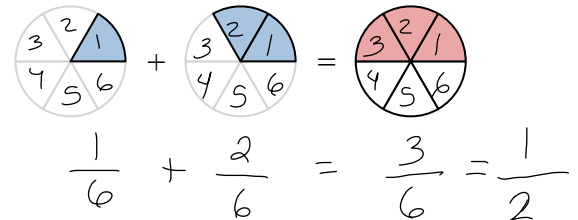
$\frac{1}{8}$

$? + \frac{2}{4} = 1$
 $\frac{2}{4} + \frac{2}{4} = \frac{4}{4} = 1$

5) Split the shape into 4 equal parts and label each part.



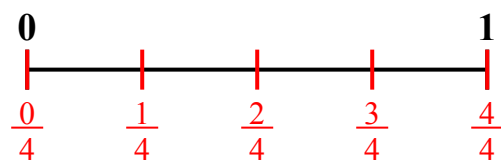
6) Write as an equation with the answer.



7) Solve. Write improper fractions as whole numbers.

$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{5}{6}$

8) Partition into 4 equal pieces and label each partition.



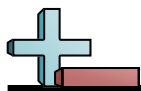


9) Use the visual model to solve.

$$3\frac{9}{10} + 3\frac{2}{10} =$$

10) Use the visual model to solve.

$$6\frac{2}{3} - 4\frac{1}{3} =$$



Determine which choice best show the value written as a numeral.

- 1) three hundred fifteen and sixty-one hundredths
A. **315.61** B. 513.6 C. 513.61 D. 315.061
- 2) eighty-six and five hundredths
A. 68.0 B. 86.50 C. **86.05** D. 68.50
- 3) three hundred twenty-six and sixteen hundredths
A. 326.016 B. **326.16** C. 326.0016 D. 623.1
- 4) five hundred fifty-one and seventy-two hundredths
A. 551.072 B. **551.72** C. 155.27 D. 551.0072
- 5) fifty-eight and ninety-two thousandths
A. 58.290 B. 85.0 C. 85.09 D. **58.092**
- 6) forty-seven and nine hundredths
A. 47.90 B. **47.09** C. 47.9 D. 74.90
- 7) sixty-eight and three hundred sixty-nine thousandths
A. 86.36 B. **68.369** C. 86.3 D. 86.963
- 8) seventy-eight and two tenths
A. **78.2** B. 78.02 C. 78.002 D. 87.2
- 9) fifty-seven and one thousandth
A. 75.100 B. 75.001 C. **57.001** D. 57.100
- 10) seven hundred ninety-five and one hundred sixty-three thousandths
A. **795.163** B. 597.163 C. 597.1 D. 795.0163
- 11) sixty-three and seventy-five thousandths
A. 36.075 B. 36.0 C. 63.570 D. **63.075**
- 12) sixteen and nine hundred fifty-three thousandths
A. 16.00953 B. 16.359 C. **16.953** D. 61.95
- 13) two hundred eighty-one and nine hundred thirty-two thousandths
A. 182.93 B. 281.00932 C. **281.932** D. 182.9
- 14) six hundred eighty-four and eighty-nine thousandths
A. 684.980 B. **684.089** C. 486.08 D. 684.0089
- 15) forty-two and three hundred ninety-eight thousandths
A. 24.398 B. 42.0398 C. 42.893 D. **42.398**



Convert each decimal to a fraction.

Converting from a decimal to a fraction is simple as long as you remember the place values.

		.	
tens	ones	tenths	hundredths

0.9

The example above is nine-tenths. Lets look at how we'd write that as a fraction.

$$\frac{9}{10}$$

0.63

We do the same thing for the problem above. But because it is into the hundredths place we put our number over 100.

$$\frac{63}{100}$$

Say it - then write it. Nine tenths = .9 = 9/10

Ex) $0.83 = \frac{83}{100}$

1) $0.38 = \frac{38}{100}$

2) $0.62 = \frac{62}{100}$

3) $0.3 = \frac{3}{10}$

4) $0.07 = \frac{7}{100}$

5) $0.21 = \frac{21}{100}$

6) $0.02 = \frac{2}{100}$

7) $0.90 = \frac{90}{100}$

8) $0.49 = \frac{49}{100}$

9) $0.04 = \frac{4}{100}$

10) $0.9 = \frac{9}{10}$

11) $0.5 = \frac{5}{10}$

12) $0.8 = \frac{8}{10}$

13) $0.24 = \frac{24}{100}$

14) $0.6 = \frac{6}{10}$

15) $0.09 = \frac{9}{100}$

16) $0.1 = \frac{1}{10}$

17) $0.06 = \frac{6}{100}$

18) $0.79 = \frac{79}{100}$

19) $0.2 = \frac{2}{10}$

20) $0.41 = \frac{41}{100}$

Answers

Ex. $\frac{83}{100}$

1. $\frac{38}{100}$

2. $\frac{62}{100}$

3. $\frac{3}{10}$

4. $\frac{7}{100}$

5. $\frac{21}{100}$

6. $\frac{2}{100}$

7. $\frac{90}{100}$

8. $\frac{49}{100}$

9. $\frac{4}{100}$

10. $\frac{9}{10}$

11. $\frac{5}{10}$

12. $\frac{8}{10}$

13. $\frac{24}{100}$

14. $\frac{6}{10}$

15. $\frac{9}{100}$

16. $\frac{1}{10}$

17. $\frac{6}{100}$

18. $\frac{79}{100}$

19. $\frac{2}{10}$

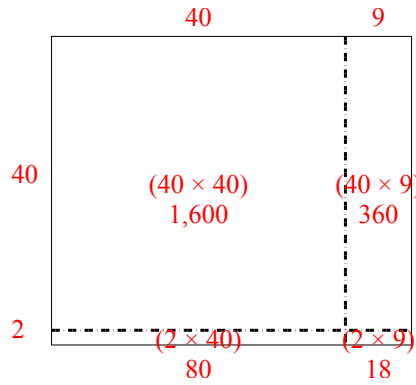
20. $\frac{41}{100}$



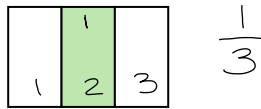
Friday

1)
$$\begin{array}{r} 9,470 \\ \times \quad 9 \\ \hline 85,230 \end{array}$$

2) Use the visual model to solve.
 $42 \times 49 =$



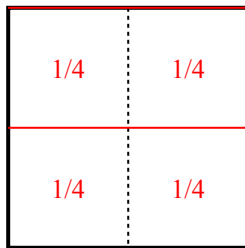
3) Write the shaded amount as a fraction of the whole.



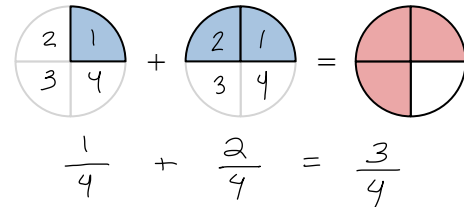
4)
$$\frac{3}{9} + ? = 1$$

$$\frac{3}{9} + \frac{6}{9} = \frac{9}{9} = 1$$

5) Split the shape into 4 equal parts and label each part.



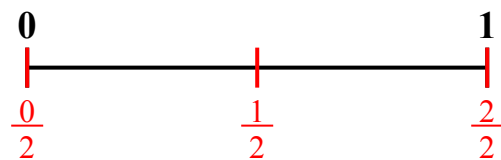
6) Write as an equation with the answer.

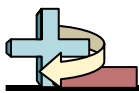


7) Solve. Write improper fractions as whole numbers.

$$\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$$

8) Partition into 2 equal pieces and label each partition.



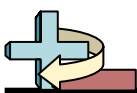


9) Use the visual model to solve.

$$1 \frac{3}{4} + 3 \frac{2}{4} =$$

10) Use the visual model to solve.

$$7 \frac{4}{8} - 4 \frac{6}{8} =$$



Tuesday

1)
$$\begin{array}{r} 65 \\ \times 77 \\ \hline 455 \\ +4,550 \\ \hline 5,005 \end{array}$$

← magic zero

2)
$$\begin{array}{r} 0375 \\ 8 \overline{)3,000} \\ \underline{0} \\ 30 \\ \underline{24} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

3) Fill in the blank to complete the pattern.

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$$

4) Fill in the blank to make an equivalent fraction.

$$\frac{2}{7} = \frac{14}{49} \quad \frac{2 \times 7 = 14}{7 \times 7 = 49}$$

5) $\frac{67}{100} + \frac{3}{10} =$

$$\frac{67}{100} + \frac{30}{100} = \frac{97}{100}$$

6) Convert to a decimal.

$$\frac{93}{100} = \underline{0.93}$$

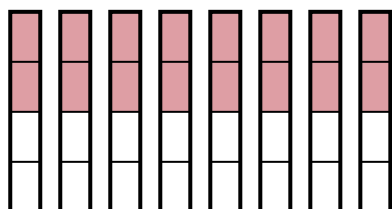
7) Answer as a mixed number (if possible).

$$\frac{26}{5} - \frac{5}{2} = \frac{52}{10} - \frac{25}{10} = 2 \frac{7}{10}$$

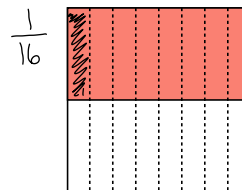
8) Answer as an improper fraction (if possible). Reduce if possible.

$$\frac{3}{4} \times \frac{5}{2} = \frac{3}{4} \times \frac{5}{2} = \frac{15}{8}$$

9) $\frac{2}{4} \times 9 = \frac{18}{4} = 4 \frac{2}{4} = \boxed{4 \frac{1}{2}}$



10) Use the model to solve: $\frac{1}{2} \div 8 = \frac{1}{16}$



$$\frac{1}{2} \div 8 = \frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$$



Fill in the blanks in each of the conversion tables.

Hint:**1 Yard = 3 Feet**

	Yards	Feet
1)	6	18
2)	5	15
3)	1	3
4)	9	27
5)	4	12

Hint:**1 Centimeter = 10 Millimeters**

	Millimeters	Centimeters
6)	20	2
7)	70	7
8)	50	5
9)	30	3
10)	90	9

Hint:**1 Meter = 100 Centimeters**

	Meters	Centimeters
11)	8	800
12)	9	900
13)	3	300
14)	1	100
15)	10	1,000

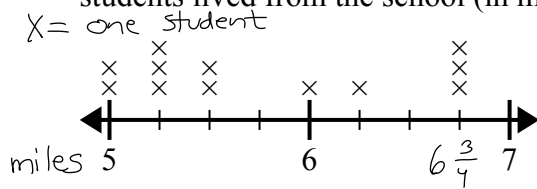
Hint:**1 Kilometer = 1000 Meters**

	Meters	Kilometers
16)	2,000	2
17)	8,000	8
18)	5,000	5
19)	9,000	9
20)	3,000	3



Use the line plots to answer each question.

- 1) The line plot below shows the distance students lived from the school (in miles).

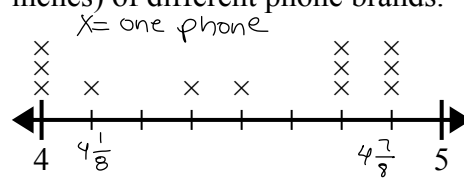


What is the difference in miles between the students who live closest and furthest away?

Difference means subtract

$$6\frac{3}{4} - 5 = 1\frac{3}{4}$$

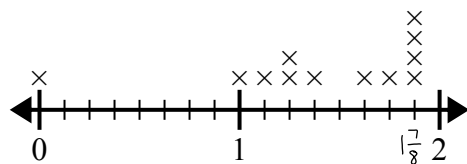
- 2) The line plot below shows the height (in inches) of different phone brands.



What is the difference in height between the shortest phone and longest phone?

$$4\frac{7}{8} - 4 = \frac{7}{8}$$

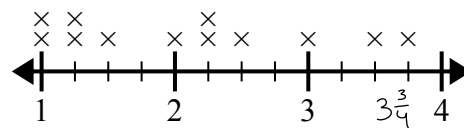
- 3) The line plot below shows the amount of water (in gallons) students drank in a week.



What is the difference in the lowest amount of water and the highest amount of water students drank?

$$1\frac{7}{8} - 0 = 1\frac{7}{8}$$

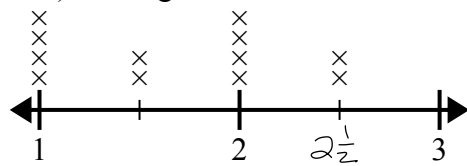
- 4) The line plot below shows the size (in inches) of several different frog species.



What is the difference in size between the shortest species and longest species of frog?

$$3\frac{3}{4} - 1 = 2\frac{3}{4}$$

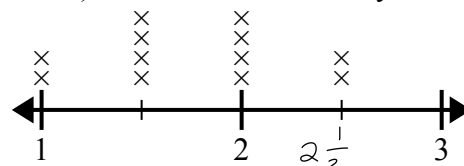
- 5) The line plot below shows the length (in feet) of the girls hair in Mr. Wood's class.



What is the difference in length between the girls with the shortest and longest hair?

$$2\frac{1}{2} - 1 = 1\frac{1}{2}$$

- 6) The line plot below shows the distance (in miles) Carol walked each day.

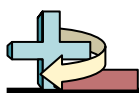


What is the difference in distance between the fewest miles she walked in a day and most miles she walked in a day?

$$2\frac{1}{2} - 1 = 1\frac{1}{2}$$

Answers

1. $1\frac{3}{4}$
2. $0\frac{7}{8}$
3. $1\frac{7}{8}$
4. $2\frac{3}{4}$
5. $1\frac{1}{2}$
6. $1\frac{1}{2}$

**Friday**

$$\begin{array}{r} 1) \quad 98 \\ \times 16 \\ \hline 588 \\ + 980 \\ \hline 1,568 \end{array}$$

$$\begin{array}{r} 2) \quad 1315 \\ 7 \overline{) 9,205} \\ \underline{7} \\ 22 \\ \underline{21} \\ 10 \\ \underline{7} \\ 35 \\ \underline{35} \\ 0 \end{array}$$

3) Fill in the blank to complete the pattern.

$$\frac{4}{6} = \frac{8}{12} = \frac{12}{18} = \frac{16}{24} = \frac{20}{30} = \frac{24}{36}$$

4) Fill in the blank to make an equivalent fraction.

$$\frac{1}{5} = \frac{2}{10}$$

5) $\frac{57}{100} + \frac{2}{10} =$

$$\frac{57}{100} + \frac{20}{100} = \frac{70}{100}$$

6) Convert to a decimal.

$$\frac{48}{100} = \underline{0.48}$$

7) Answer as a mixed number (if possible).

$$2 \frac{1}{2} + 1 \frac{1}{5} =$$

$$2 \frac{5}{10} + 1 \frac{2}{10} = 3 \frac{7}{10}$$

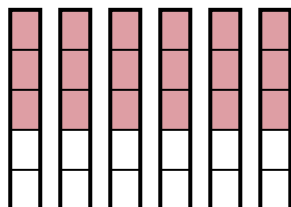
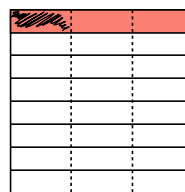
8) Answer as an improper fraction (if possible). Reduce if possible.

$$2 \frac{2}{4} \times 1 \frac{1}{3} = \text{Step 1: Change into improper fraction}$$

$$\frac{10}{4} \times \frac{4}{3} = \frac{40}{12}$$

Step 2 multiply

9) $\frac{3}{5} \times 6 = \frac{3 \times 6}{5 \times 1} = \frac{18}{5} = 3 \frac{3}{5}$

10) Use the model to solve: $\frac{1}{8} \div 3 =$ $\frac{1}{24}$ 

$$\frac{1}{8} \div 3 =$$

$$\frac{1}{8} \times \frac{1}{3} = \frac{1}{24}$$



Monday

$$\begin{array}{r}
 1) \quad 318 \\
 \times \quad 59 \\
 \hline
 2,862 \\
 +15,900 \\
 \hline
 18,762
 \end{array}$$

$$\begin{array}{r}
 2) \quad 0095r23 \\
 27 \overline{) 2,588} \\
 \underline{0} \\
 25 \\
 \underline{0} \\
 258 \\
 \underline{243} \\
 158 \\
 \underline{135} \\
 23
 \end{array}$$

$$\begin{array}{r}
 \overset{1}{\times} 27 \\
 \underline{2} \\
 54 \\
 \overset{2}{\times} 27 \\
 \underline{3} \\
 81 \\
 \overset{2}{\times} 27 \\
 \underline{4} \\
 108 \\
 \overset{3}{\times} 27 \\
 \underline{5} \\
 135 \\
 \hline
 \overset{4}{\times} 27 \\
 \underline{6} \\
 162 \\
 \overset{4}{\times} 27 \\
 \underline{7} \\
 189 \\
 \overset{5}{\times} 27 \\
 \underline{8} \\
 216 \\
 \overset{6}{\times} 27 \\
 \underline{9} \\
 243
 \end{array}$$

If you find the multiples of 27 first division is easy!

Butterfly method

$$\frac{\cancel{6} + \cancel{4}}{\cancel{7} + \cancel{9}} = \frac{30}{35} + \frac{28}{35}$$

- 3) Dave drew a line that was $6\frac{6}{7}$ inches long. If he drew a second line that was $4\frac{4}{5}$ inches longer, what is the length of the second line? Answer as a mixed number.

$$6\frac{6}{7} + 4\frac{4}{5} = 6 + 4 + \frac{6}{7} + \frac{4}{5} = 10 + \frac{6}{7} + \frac{4}{5} = 10 + \frac{30}{35} + \frac{28}{35} = 10\frac{58}{35} = 11\frac{23}{35}$$

4) $\frac{1}{5} \div 9 =$

$$\frac{1}{5} \times \frac{1}{9} = \frac{1}{45}$$

- 5) Reduce if possible.

$$\frac{11}{4} \times \frac{1}{4} =$$

$$\frac{11}{4} \times \frac{1}{4} = \frac{11}{16}$$

- 6) What number completes both equations?

$$\frac{1}{4} \div 9 = ? \quad \frac{1}{4} \div 9 = \frac{1}{4} \times \frac{1}{9} = \frac{1}{36}$$

$$? \times 9 = \frac{1}{4} \\
 \boxed{\frac{1}{36}} \times 9 = \frac{9}{36} = \frac{1}{4}$$

- 7) Write as a mixed number.

$$\frac{63}{6} = 10\frac{3}{6}$$

- 8) Write as an improper fraction.

$$8\frac{1}{2} = \frac{17}{2}$$

- 9) Which number has the least value?

- A. 2.79 B. 9.27
C. 27.9 D. 7.92

$$\begin{array}{l}
 27.9 \\
 9.27 \\
 7.92 \\
 \boxed{2.79}
 \end{array}$$

$$2 < 7 < 9 < 27$$

- 10) Order from small to large.

- A. 5.8 B. 5.3
C. 5.7 D. 5.04

$$\begin{array}{l}
 5.04 \\
 5.3 \\
 5.7 \\
 5.8
 \end{array}$$

$$.0 < .3 < .7 < .8$$

**Tuesday**

$$\begin{array}{r}
 1) \quad 692 \\
 \times \quad 57 \\
 \hline
 4,844 \\
 +34,600 \\
 \hline
 39,444
 \end{array}$$

$$\begin{array}{r}
 2) \quad 0046 \\
 82 \overline{) 3,772} \\
 \underline{0} \\
 37 \\
 \underline{0} \\
 377 \\
 \underline{328} \\
 492 \\
 \underline{492} \\
 0
 \end{array}$$

Butterfly

$$\frac{\cancel{1} + \cancel{1}}{\cancel{5} \times \cancel{2}} = \frac{2}{10} + \frac{5}{10}$$

- 3) In December it snowed $6\frac{1}{5}$ inches. In January it snowed $5\frac{1}{2}$ inches. What is the combined amount of snow for December and January? Answer as a mixed number.

$$6\frac{1}{5} + 5\frac{1}{2} = 11 + \frac{1}{5} + \frac{1}{2} = 11 + \frac{2}{10} + \frac{5}{10} = 11\frac{7}{10}$$

4) $\frac{1}{3} \div 4 =$

$$\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$$

- 5) Reduce if possible.

$$\frac{1}{2} \times \frac{9}{5} =$$

$$\frac{1}{2} \times \frac{9}{5} = \frac{9}{10}$$

- 6) What number completes both equations?

$$\frac{1}{9} \div 9 = ? \quad \frac{1}{9} \div 9 = \frac{1}{9} \times \frac{1}{9} = \frac{1}{81}$$

$$? \times 9 = \frac{1}{9}$$

$$\frac{1}{81} \times \frac{9}{1} = \frac{9}{81} = \frac{1}{9}$$

- 7) Write as a mixed number.

$$\frac{5}{2} = 2\frac{1}{2}$$

- 8) Write as an improper fraction.

$$2\frac{1}{2} = \frac{5}{2}$$

- 9) Which number has the least value?

- A. 9.46 B. 49.6
C. 69.4 D. 4.96

69.4
49.6
9.46
4.96

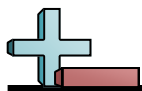
$$4 < 9 < 49 < 69$$

- 10) Order from small to large.

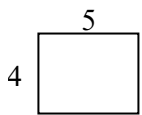
- A. 49.1 B. 49.99
C. 50 D. 49.7

49.1
49.7
49.99
50





1)



$$A = 4 \times 5 = 20$$

$$P = 5 + 5 + 4 + 4 = 18$$

$$2. \quad A = 40$$

$$P = 28$$

$$3. \quad A = 12$$

$$P = 14$$

$$4. \quad A = 24$$

$$P = 22$$

$$5. \quad A = 15$$

$$P = 16$$

$$6. \quad A = 42$$

$$P = 26$$

$$7. \quad A = 21$$

$$P = 20$$

$$8. \quad A = 81$$

$$P = 36$$

$$9. \quad A = 60$$

$$P = 32$$

$$10. \quad A = 24$$

$$P = 20$$

$$11. \quad A = 36$$

$$P = 24$$

$$12. \quad A = 35$$

$$P = 24$$

$$13. \quad A = 24$$

$$P = 20$$

$$14. \quad A = 56$$

$$P = 30$$

$$15. \quad A = 8$$

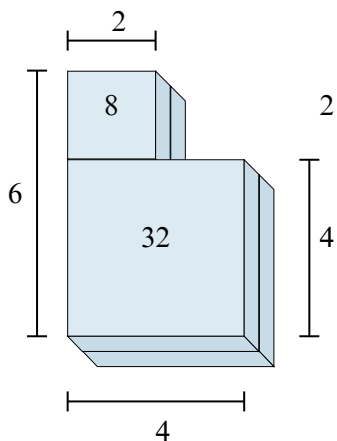
$$P = 12$$



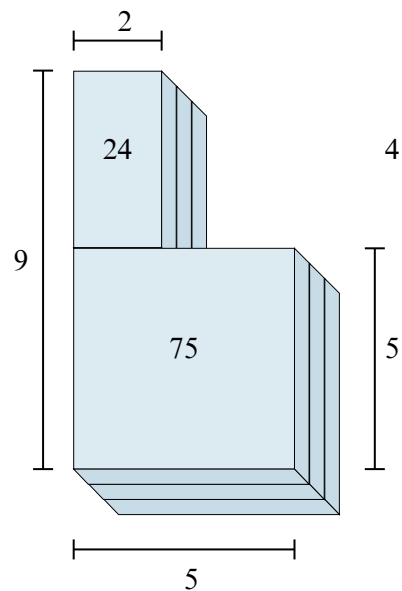


Find the total volume of each figure shown. Measured in cm (not to scale).

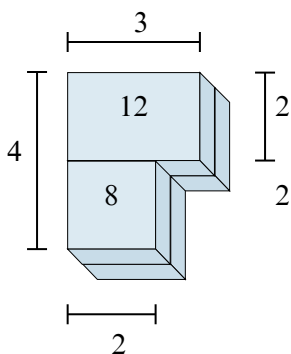
1)



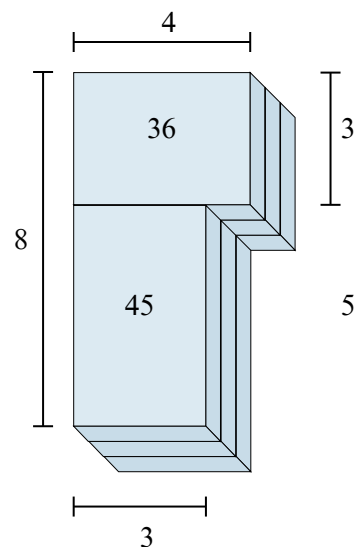
2)



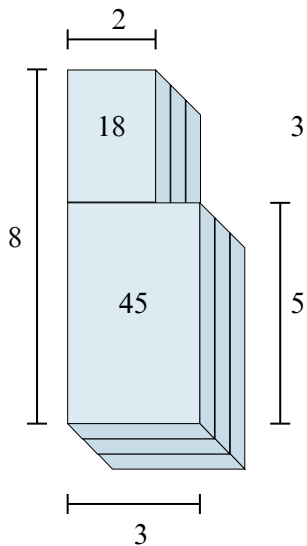
3)



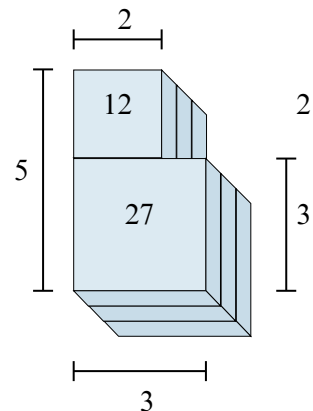
4)



5)



6)



**Friday**

$$\begin{array}{r}
 1) \quad 919 \\
 \times \quad 26 \\
 \hline
 5,514 \\
 +18,380 \\
 \hline
 23,894
 \end{array}$$

$$\begin{array}{r}
 2) \quad 0640 \\
 5 \overline{) 3,200} \\
 \underline{0} \\
 32 \\
 \underline{30} \\
 20 \\
 \underline{20} \\
 00 \\
 \underline{00} \\
 0
 \end{array}$$

- 3) Vanessa bought a bamboo plant that was $9\frac{2}{3}$ feet high. After a month it had grown another $3\frac{1}{6}$ feet. What was the total height of the plant after a month? Answer as a mixed number.

$$9\frac{2}{3} + 3\frac{1}{6} = 12 + \frac{2}{3} + \frac{1}{6} = 12 + \frac{4}{6} + \frac{1}{6} = 12\frac{5}{6}$$

4) $\frac{1}{2} \div 4 =$

$$\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

- 5) Answer as an improper fraction (if possible).
Reduce if possible.

$$3\frac{2}{3} \times 2\frac{1}{2} =$$

$$\frac{11}{3} \times \frac{5}{2} = \frac{55}{6}$$

- 6) What number completes both equations?

$$\frac{1}{9} \div 3 = ? \quad \frac{1}{9} \div 3 = \frac{1}{9} \times \frac{1}{3} = \frac{1}{27}$$

$$? \times 3 = \frac{1}{9}$$

$$\frac{1}{27} \times 3 = \frac{3}{27} = \frac{1}{9}$$

- 7) Write as a mixed number.

$$\frac{3}{2} = 1\frac{1}{2}$$

- 8) Write as an improper fraction.

$$5\frac{1}{5} = \frac{26}{5}$$

Short cut: $5 \times 5 + 1 = 26$

- 9) Which number has the least value?

A. 54.9

B. 45.9

C. 9.54

D. 49.5

- 10) Order from small to large.

A. 49

B. 48.95

C. 48.55

D. 48.5

48.5
48.55
48.95
49

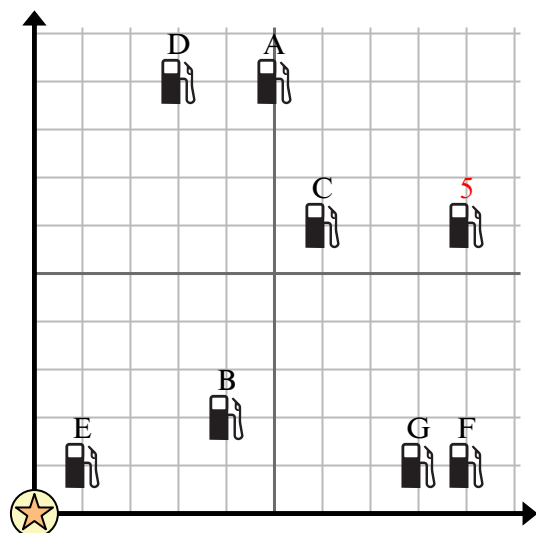


Use the grid to solve each problem.

= Gas Station

= Mall

= 1 Square Mile



- 1) Which gas station is closest to the mall?
- 2) Which gas station is furthest from the mall?
- 3) If you were to go 3 miles east and 9 miles north from the mall which gas station would you end up at?
- 4) Which gas station is further west? Station A or Station D?
- 5) Investors wanted to build a new gas station, but wanted to make sure it was at least 2 miles from a pre-existing station. Should they build a gas station 9 miles east and 6 miles north of the mall?

Answers

1. **E**
2. **A**
3. **D**
4. **D**
5. **yes**
6. **C**
7. **A**
8. **G**
9. **B**
10. **yes**

6) Which well is closest to the water tower?

= Well

= Water Tower

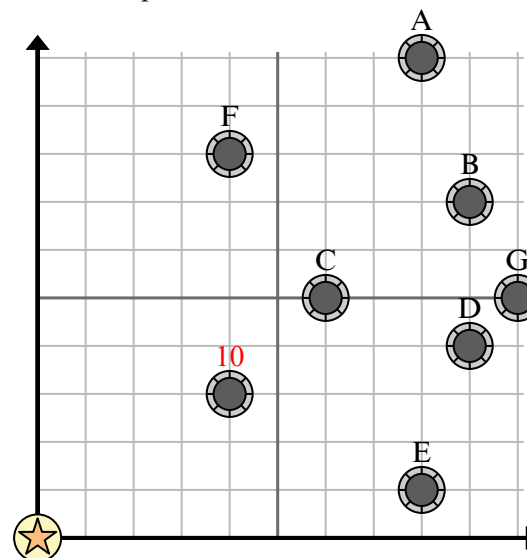
= 1 Square Mile

7) Which well is furthest from the water tower?

8) If you were to go 10 miles east and 5 miles north from the water tower which well would you end up at?

9) Which well is further east? Well A or well E?

10) A new law says you can't build a well within 2 miles a pre-existing well. If you wanted to build a well 4 miles east and 3 miles north of the water tower, would you be allowed to?





Convert each problem to word form.

- 1) 6.418 six and four hundred eighteen thousandths
- 2) 72.036 seventy-two and thirty-six thousandths
- 3) 19.666 nineteen and six hundred sixty-six thousandths
- 4) 8.955 eight and nine hundred fifty-five thousandths
- 5) 968.06 nine hundred sixty-eight and six hundredths
- 6) 2.022 two and twenty-two thousandths
- 7) 144.118 one hundred forty-four and one hundred eighteen thousandths
- 8) 17.688 seventeen and six hundred eighty-eight thousandths
- 9) 9.491 nine and four hundred ninety-one thousandths
- 10) 2.66 two and sixty-six hundredths
- 11) 3.02 three and two hundredths
- 12) 24.052 twenty-four and fifty-two thousandths
- 13) 95.748 ninety-five and seven hundred forty-eight thousandths
- 14) 92.223 ninety-two and two hundred twenty-three thousandths
- 15) 68.31 sixty-eight and thirty-one hundredths
- 16) 714.625 seven hundred fourteen and six hundred twenty-five thousandths
- 17) 7.5 seven and five tenths
- 18) 89.912 eighty-nine and nine hundred twelve thousandths
- 19) 7.075 seven and seventy-five thousandths
- 20) 589.544 five hundred eighty-nine and five hundred forty-four thousandths



Evaluate each expression.

$$\begin{aligned} 1) \quad & 9+(9+5+7)-6 \\ & 9+(14+7)-6 \\ & 9+21-6 \\ & 30-6 \\ & 24 \end{aligned}$$

$$\begin{aligned} 2) \quad & 8+3+2+(4+8) \\ & 8+3+2+12 \\ & 11+2+12 \\ & 13+12 \\ & 25 \end{aligned}$$

$$\begin{aligned} 3) \quad & (9+6-8+80\div 8) \\ & (9+6-8+10) \\ & (15-8+10) \\ & (7+10) \\ & 17 \end{aligned}$$

$$\begin{aligned} 4) \quad & (8-7)+90\div 10+30\div 6 \\ & 1+90\div 10+30\div 6 \\ & 1+9+30\div 6 \\ & 1+9+5 \\ & 10+5 \\ & 15 \end{aligned}$$

$$\begin{aligned} 5) \quad & 2+36\div 9+(6+2) \\ & 2+36\div 9+8 \\ & 2+4+8 \\ & 6+8 \\ & 14 \end{aligned}$$

$$\begin{aligned} 6) \quad & (6+12\div 4\times 5-2) \\ & (6+3\times 5-2) \\ & (6+15-2) \\ & (21-2) \\ & 19 \end{aligned}$$

$$\begin{aligned} 7) \quad & 4+(7+18\div 6)\times 6 \\ & 4+(7+3)\times 6 \\ & 4+10\times 6 \\ & 4+60 \\ & 64 \end{aligned}$$

$$\begin{aligned} 8) \quad & 3+16\div 2+(3+10) \\ & 3+16\div 2+13 \\ & 3+8+13 \\ & 11+13 \\ & 24 \end{aligned}$$

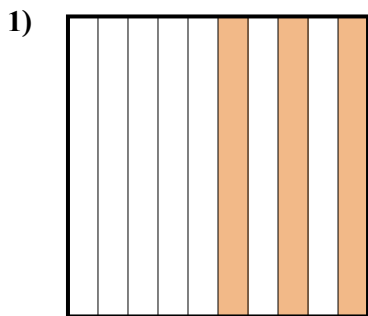
$$\begin{aligned} 9) \quad & (8+7)\times 8+81\div 9 \\ & 15\times 8+81\div 9 \\ & 120+81\div 9 \\ & 120+9 \\ & 129 \end{aligned}$$

$$\begin{aligned} 10) \quad & 6+(8-4+24\div 6) \\ & 6+(8-4+4) \\ & 6+(4+4) \\ & 6+8 \\ & 14 \end{aligned}$$

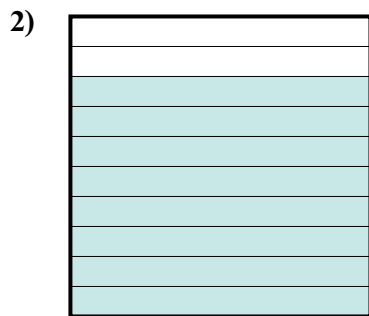
Answers1. 242. 253. 174. 155. 146. 197. 648. 249. 12910. 14



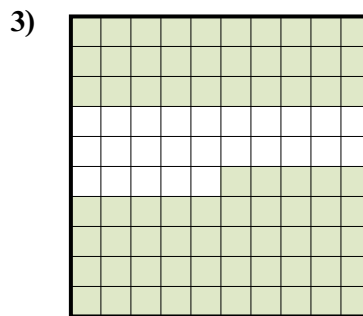
Determine which letter best represents the amount shaded of the whole.



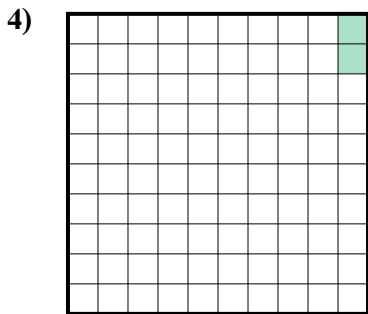
- A. 0.3
- B. 0.03
- C. 300
- D. 30



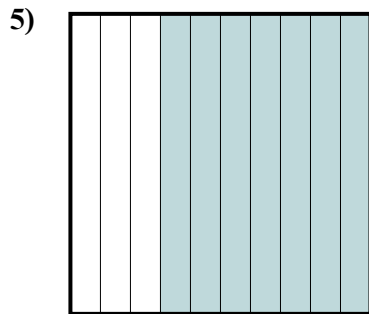
- A. 0.8
- B. 8
- C. 800
- D. 0.08



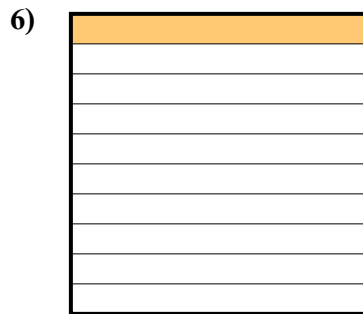
- A. 0.075
- B. 0.75
- C. 750
- D. 7.5



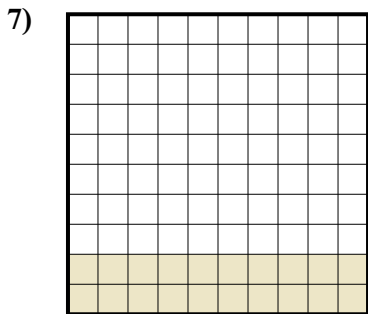
- A. 20
- B. 0.02
- C. 0.2
- D. 2



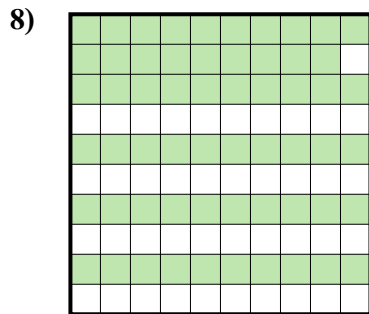
- A. 700
- B. 70
- C. 0.7
- D. 0.07



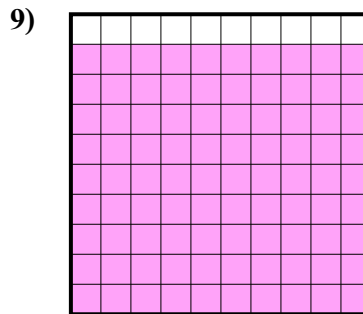
- A. 0.1
- B. 0.01
- C. 1
- D. 100



- A. 2
- B. 0.2
- C. 0.02
- D. 200



- A. 59
- B. 590
- C. 0.059
- D. 0.59



- A. 900
- B. 0.9
- C. 9
- D. 0.09

Answers

- 1. **A**
- 2. **A**
- 3. **B**
- 4. **B**
- 5. **C**
- 6. **A**
- 7. **B**
- 8. **D**
- 9. **B**



Solve each problem.

$$5.47 \times 10^4$$

This is the same as saying:

$$5.47 \times (10 \times 10 \times 10 \times 10)$$

And because the base is 10 you can just move the decimal 4 places to the right to solve.

$$\underline{\underline{54700.}}$$

$$5.47 \times 10^4 = 54,700$$

$$2.36 \div 10^2$$

Division is the same way. Only instead of moving the decimal right, you move it left.

$$\underline{\underline{.0236}}$$

You can also multiply a negative exponent, which means the same thing.

$$2.36 \times 10^{-2} = 2.36 \div 10^2$$

1) $296.141 \div 10^2$

2) 438.714×10^4

3) $821.5 \div 10^2$

4) 494.782×10^1

5) $2.591 \div 10^1$

6) 564.8×10^1

7) $2.725 \div 10^4$

8) 7.6×10^3

9) $1.69 \div 10^4$

10) 82.64×10^1

11) $67.4 \div 10^2$

12) 9.713×10^1

13) $34.78 \div 10^1$

14) 254.566×10^3

15) $5.412 \div 10^3$

16) 856.711×10^2

17) $125.74 \div 10^3$

18) 3.9×10^2

19) $25.4 \div 10^2$

20) 931.768×10^4

Answers

1. **2.96141**

2. **4,387,140**

3. **8.215**

4. **4,947.82**

5. **0.2591**

6. **5,648**

7. **0.0002725**

8. **7,600**

9. **0.000169**

10. **826.4**

11. **0.674**

12. **97.13**

13. **3.478**

14. **254,566**

15. **0.005412**

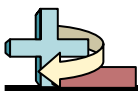
16. **85,671.1**

17. **0.12574**

18. **390**

19. **0.254**

20. **9,317,680**



Monday

- 1) A school bought 789 boxes of computer paper for the computer lab. Each box had 49 sheets of paper inside it. How much paper did they buy total?

$$789 \times 49 = 38,661 \text{ sheets}$$

$$\begin{array}{r} 16 \text{ R}24 \\ 32 \overline{)536} \\ \underline{216} \\ 192 \\ \underline{192} \\ 0 \end{array}$$

- 2) A baker had thirty-two boxes of donuts. He ended up making five hundred thirty-six donuts and splitting them evenly between the boxes. How many extra donuts did he end up with?

$$536 \div 32 = 16 \text{ R}24 \quad 24 \text{ extra donuts}$$

- 3) Answer as a mixed number (if possible):

An industrial dishwasher takes 3 gallons of water to wash a full load of dishes. If you were to wash 2 full load and $\frac{2}{3}$ of a load, how much water would you use?

$$3 \times 2\frac{2}{3} = (3 \times 2) + (3 \times \frac{2}{3}) = 6 + \frac{6}{3} = 6 + 2 = 8$$

- 4) Mike drew a line that was $9\frac{4}{8}$ inches long. If he drew a second line that was $2\frac{3}{6}$ inches longer, what is the length of the second line? Answer as a mixed number.

$$9\frac{4}{8} + 2\frac{3}{6} \text{ Notice! } \frac{4}{8} = \frac{1}{2} \quad \frac{3}{6} = \frac{1}{2} \quad \text{Rewrite } 9\frac{1}{2} + 2\frac{1}{2} = 11 + 1 = 12$$

- 5) A farmer had 21 acres he wanted to split amongst his 8 children. If each child gets the same amount of land, how much should each one get? Between what two whole numbers does your answer lie?

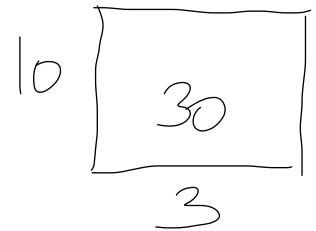
$$21 \div 8 = 2\frac{6}{8} = 2\frac{3}{4} \quad \text{Between 2 and 3}$$

- 6) A bag of pistachios is 3.4 grams. If you have 0.33 of a bag, how many grams does it weigh?

$$\begin{array}{r} 3.4 \\ \times 0.33 \\ \hline 102 \\ 1020 \\ \hline 1122 \end{array} \quad 1.122$$

- 7) Which number sentence is true?

- A. $0.53 < 0.35$ **B. $3.50 > 3.05$**
C. $0.38 = 0.83$ D. $2.76 < 2.67$



- 8) A lawn had an area of 30 square feet. If it was 3 feet width, how long was it?

$$3 \text{ ft} \times 10 \text{ ft} = 30 \text{ ft}^2$$

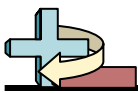
- 9) Over the summer Cody earned 612 dollars mowing lawns and another 357 dollars trimming weeds. To the nearest hundred, how much money did Cody make total?

$$\begin{array}{r} + 612 \\ 357 \\ \hline 969 \end{array} \quad \text{\$1000}$$

- 10) Round to the nearest tenth:

9.459

$$9.4\text{\underline{5}}9 \uparrow \quad \text{\textcircled{9.5}}$$



Tuesday

- 1) Every hour a soup company produces 808 liters of soup. How much soup would the company have made after 60 hours?

$$808 \times 60 = 48,480$$

- 2) A company had thirty-one employees and ordered eight hundred thirty-three uniforms for them. If they wanted to give each employee the same number of uniforms, how many more uniforms should they order so they don't have any extra?

2 ways

$$833 \div 31 = 26 \text{ R}25 \text{ you need } \textcircled{6} \text{ more}$$

- 3) Answer as a mixed number (if possible):

A bag of strawberry candy takes $2\frac{7}{9}$ ounces of strawberries to make. If you have $3\frac{1}{2}$ bags, how many ounces of strawberries did it take to make them?

$$2\frac{7}{9} \times 3\frac{1}{2} = \frac{25}{9} \times \frac{7}{2} = \frac{175}{18} = 9\frac{13}{18}$$

- 4) Victor spent $4\frac{2}{10}$ hours working on his math homework. If he spent another $3\frac{3}{6}$ hours on his reading homework, what is the total time he spent on homework? Answer as a mixed number.

$$4\frac{2}{10} + 3\frac{3}{6} = 4\frac{2}{10} + 3\frac{1}{2} = 4\frac{2}{10} + 3\frac{5}{10} = \textcircled{7\frac{7}{10}}$$

- 5) A pet store had 7 cats. If they wanted to split 46 ounces of cat food amongst them, how much should each cat get? Between what two whole numbers does your answer lie?

$$46 \div 7 = 6\frac{4}{7} \text{ between } 6 \text{ and } 7$$

- 6) On Halloween 2 friends each received 0.52 of a pound of candy. How much candy did they receive total?

$$.52 \times 2 = 1.04 \text{ lb.}$$

- 7) Which number sentence is true?

- A. $0.91 < 0.19$ B. $1.27 > 1.72$
 C. $3 = 3.00$ D. $0.65 < 0.56$

- 8) The surface of a swimming pool was 7 meters wide and 4 meters long. What is the perimeter of the surface?

$$4 \begin{array}{|c|} \hline 7 \\ \hline \end{array} \quad 7+7+4+4 = 14+8 = \textcircled{22}$$

- 9) At Haley's school there are 101 students in 3rd grade and 825 students in 4th grade. To the nearest ten, how many students were there in both grades?

$$\begin{array}{r} + 101 \\ 825 \\ \hline 926 \end{array} \quad \textcircled{930}$$

- 10) Round to the nearest tenth:

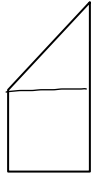
82.043

$$\textcircled{82.0}$$



Determine which letter BEST represents the shapes that were used to create the figure shown.

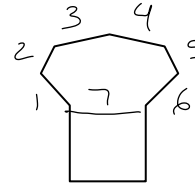
1)



- A. A Quadrilateral and an Octagon
- B. A Pentagon and an Octagon
- C. A Triangle and a Pentagon
- D. A Square and a Triangle**

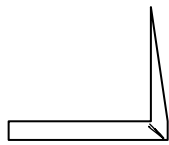
2)

A heptagon has 7 sides



- A. A Rectangle and a Quadrilateral
- B. A Square and a Heptagon**
- C. A Quadrilateral and an Octagon
- D. A Rectangle and a Pentagon

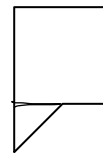
3)



Quadrilateral =
Four sides

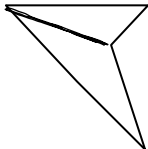
- A. A Quadrilateral and an Octagon
- B. A Rectangle and an Octagon
- C. A Pentagon and a Hexagon
- D. A Triangle and a Quadrilateral**

4)



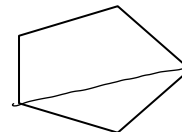
- A. A Rectangle and a Hexagon
- B. A Rectangle and an Octagon
- C. A Rectangle and a Quadrilateral
- D. A Triangle and a Rectangle**

5)



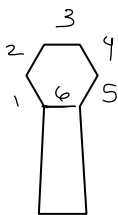
- A. A Heptagon and an Octagon
- B. A Rectangle and a Pentagon
- C. A Triangle and an Octagon
- D. A Triangle and a Triangle**

6)



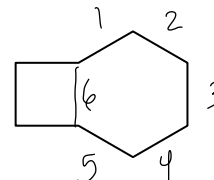
- A. A Rectangle and a Hexagon
- B. A Quadrilateral and a Triangle**
- C. A Triangle and a Hexagon
- D. A Hexagon and an Octagon

7)

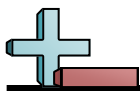


- A. A Hexagon and a Quadrilateral**
- B. A Square and an Octagon
- C. A Rectangle and an Octagon
- D. A Rectangle and a Pentagon

8)



- A. A Hexagon and a Quadrilateral**
- B. A Square and a Heptagon
- C. A Quadrilateral and a Pentagon
- D. A Pentagon and a Hexagon



Determine the number that will correctly balance each equation.

$$1) \quad 14 + \underline{24} = 9 + 8 + 21 \\ 38 = 38$$

$$2) \quad 8 + 17 = 5 + 6 + \underline{14} \\ 25 = 25$$

$$3) \quad \underline{8} + 48 + 46 = 90 + 12 \\ 102 = 102$$

$$4) \quad 25 + 41 = 5 + 13 + \underline{48} \\ 66 = 66$$

$$5) \quad 55 + 19 = 23 + 23 + \underline{28} \\ 74 = 74$$

$$6) \quad 73 + 26 = \underline{19} + 38 + 42 \\ 99 = 99$$

$$7) \quad 28 + 11 + \underline{42} = 64 + 17 \\ 81 = 81$$

$$8) \quad 32 + 32 + \underline{12} = 40 + 36 \\ 76 = 76$$

$$9) \quad 40 + 30 + 32 = 73 + \underline{29} \\ 102 = 102$$

$$10) \quad \underline{24} + 21 + 32 = 76 + 1 \\ 77 = 77$$

$$11) \quad 35 + \underline{26} + 49 = 55 + 55 \\ 110 = 110$$

$$12) \quad 6 + 63 = 13 + 40 + \underline{16} \\ 69 = 69$$

$$13) \quad \underline{26} + 24 = 17 + 11 + 22 \\ 50 = 50$$

$$14) \quad 47 + \underline{26} + 27 = 55 + 45 \\ 100 = 100$$

**Friday**

- 1) Henry was collecting cans for recycling. In 5 months he had collected 403 bags with 79 cans inside each bag. How many cans did he have total?

$$403 \times 79 = 31,837$$

- 2) A vase can hold thirty-seven flowers. If a florist had nine hundred eighty-three flowers she wanted to put equally into vases, how many flowers would be in the last vase that isn't full?

$$983 \div 37 = 26 \text{ R}21 \quad (21)$$

- 3) Answer as a mixed number (if possible):

A batch of donuts required $4\frac{2}{4}$ pints of glaze. If a donut store was making $\frac{3}{5}$ of a batch, how much glaze would they need?

$$4\frac{2}{4} \times \frac{3}{5} = \frac{18}{4} \times \frac{3}{5} = \frac{54}{20} = \frac{27}{10} = (2\frac{7}{10})$$

- 4) A small box of nails was $10\frac{1}{2}$ inches tall. If the large box of nails was $2\frac{1}{10}$ inches taller, how tall is the large box of nails? Answer as a mixed number.

$$10\frac{1}{2} + 2\frac{1}{10} = 12 + \frac{1}{2} + \frac{1}{10} = 12 + \frac{5}{10} + \frac{1}{10} = 12\frac{6}{10} = (12\frac{3}{5})$$

- 5) A candy maker had a piece of taffy that was 69 inches long. If he chopped it into 8 equal length pieces, how long would each piece be? Which two whole numbers does your answer lie between?

$$69 \div 8 = 8\frac{5}{8} \quad \text{between 8 and 9}$$

- 6) Edward had a bucket that was 0.76 full of apples. He ended up throwing out 0.4 of them though because they were bad. Out of the total amount Edward had how many of them were bad?

(This question is a bit confusing. You could also argue .4)

$$\begin{array}{r} ^2 \\ \times .76 \\ ^1 \\ ^0 \\ \hline .304 \end{array} \quad (.304)$$

- 7) Which number sentence is true?

A. $1.78 = 1.87$ B. $5.98 < 5.89$
 C. $8.0 = 8$ D. $4.69 = 4.96$

- 8) A movie poster was 2 inches wide with a total area of 16 in^2 . How tall is the movie poster?

$$2 \text{ in} \times 8 \text{ in} = 16 \text{ in}^2 \quad 2 \begin{array}{|c|} \hline 8 \\ \hline 16 \\ \hline \end{array}$$

- 9) A zoologist was checking the weights of two gorillas. Gorilla A weighed 935 pounds and gorilla B weighed 293 pounds. To the nearest ten, what is the combined weight of both gorillas?

$$\begin{array}{r} ^1 \\ + ^1 935 \\ ^0 293 \\ \hline 1228 \end{array} \quad (1230)$$

- 10) Round to the nearest hundredth:

637.464

637.5