



June 2022

Math – Rising 6<sup>th</sup> Grade Students

Dear Rising Sixth Grade Students and Parents,

Please complete the attached math problems over the summer. These are a review of math skills that will help prepare your child for 6<sup>th</sup> Grade Math. The students are to show ALL their work on additional paper. This is to be stapled to the Math packet. This packet will be graded and put in for a 1<sup>st</sup> trimester grade.

The expectation is that students have MASTERED multiplication and division facts to 12, as per our standards, prior to the start of school in August.

Have a blessed summer!

Sincerely,

Ms. Chaves

Name \_\_\_\_\_

# Week 1

Show your work.

1. Find the difference.

$$\begin{array}{r} \$421.51 \\ - 243.55 \\ \hline \end{array}$$

6.  $3 \overline{)2700}$

2. The sum of 63,057 and 32,964 is:

7.  $\begin{array}{r} 4037 \\ \times 7 \\ \hline \end{array}$

3. Find the missing factor.

$$24 = 8 \times d$$

8.  $4 \times 3 + 42 \div 6 - 9$

4. Round to the nearest hundredth.

7.826

9. Find the number 1000 more than:

$$3 \overline{)91,806}$$

5. Put in order from the greatest to the least.

3.91; 3.914; 3.091

10. Which illustrates the Commutative Property of Addition?

- a.  $354 + 0 = 354$
- b.  $15 + (60 + 2) = (15 + 60) + 2$
- c.  $293 + 17 = 200 + 93 + 17$
- d.  $828 + 716 = 716 + 828$

Show your work.

11. Use front-end estimation to estimate the sum.

$$\begin{array}{r} 4823 \\ 7251 \\ + 2945 \\ \hline \end{array}$$

16. In 12,856,713,059 which digit is in the hundred millions place?

12.  $32 \overline{) \$1322.56}$

17. Write in standard form.

$$3,000,000 + 800,000 + 50 + 6$$

13. Lynn bought a box of 45 cards for \$42.75. How much did each card cost?

18. Which compatible numbers would give an estimate closest to the actual quotient?

$$27 \overline{) 6492}$$

- a. 15 and 6000      b. 20 and 6000  
c. 30 and 6000      d. not given

14.  $364 \times \$17.92$

19. What is the place value of the digit 4 in 5.634?

15. Jan swam 10.7 miles on Monday, 13.5 miles on Wednesday, and 9 miles on Friday. How many miles did Jan swim in all?

20. **Tell About It**

Solve. Explain how you solved the problem.

Ms. Betz earns \$42,426 a year. About how much does she earn in one month?

Name \_\_\_\_\_

Show your work.

1. Which number represents thirty million three?

- a. 3,000,003  
 b. 30,000,030  
 c. 30,000,003  
 d. 30,000,300

6. Two hundred fifty-two thousandths of a group of students are wearing sneakers. Write this number in standard form.

- a. 0.252  
 b. 252,000  
 c. 252  
 d. 252.0

2. Divide.

$$2222 \div 22$$

7. Find the greatest common factor (GCF) for 32, 48, and 64.

3. Which group of fractions is arranged from least to greatest?

- a.  $\frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$       b.  $\frac{1}{4}, \frac{1}{3}, \frac{2}{7}, \frac{2}{9}$   
 c.  $\frac{1}{4}, \frac{2}{7}, \frac{2}{9}, \frac{1}{3}$       d.  $\frac{1}{3}, \frac{1}{2}, \frac{1}{4}, \frac{1}{5}$

8. Add.

$$4352 + 509 + 628$$

4. Subtract.

$$\begin{array}{r} 12\frac{1}{9} \\ - 7\frac{1}{3} \\ \hline \end{array}$$

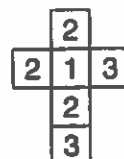
9. Multiply.

$$\frac{5}{6} \times \frac{2}{3}$$

5. Divide.

$$1\frac{7}{12} \div 2\frac{3}{4}$$

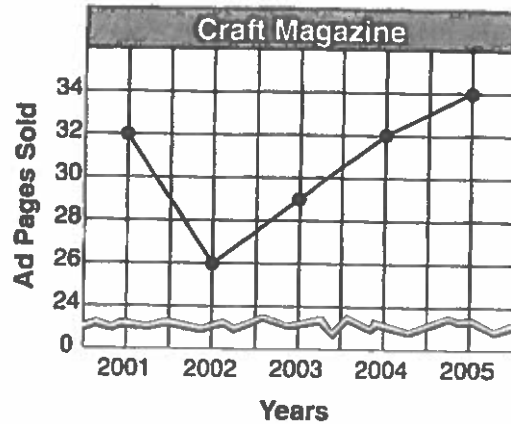
10. If this number cube is tossed, what is the probability of getting a 2?



# Show your work.

Use the line graph to answer questions 11–12.

11. A craft magazine kept a record of its ad pages sold over a 5-year period. What was the first year that it increased its ad pages?
12. How many more ad pages were sold in 2005 than in 2002?



<p>13. Choose the best estimate closest to the actual quotient for <math>35 \times 954</math>.</p> <p>a. about 35,000      b. about 27,000</p> <p>c. about 20,000      d. about 3500</p>	<p>17. Which number is <i>not</i> divisible by 3?</p> <p>a. 612      b. 637</p> <p>c. 696      d. 645</p>
<p>14. If two halves of <math>2\frac{1}{2}</math> are added to <math>2\frac{1}{2}</math>, the result is:</p>	<p>18. In a restaurant, four people can be seated at each table. What is the least number of tables needed to seat 50 people?</p>
<p>15. Ray purchases a pair of sneakers for \$52.75 and a pair of socks for \$3.50. How much change does he get from \$60.00?</p>	<p>19. Mario works <math>7\frac{1}{2}</math> hours each day. How many more hours will he work today if he has already worked <math>2\frac{1}{4}</math> hours?</p>
<p>16. North Airport has 63 flights leaving every day. Two-thirds of these flights leave in the morning. How many flights leave in the morning?</p>	<p>20. <b>Tell About It</b></p> <p><b>Solve. Explain how you solved the problem.</b></p> <p>The rate for placing an ad in a magazine for 1 week is \$10.00 for the first 20 words, and \$0.60 for each additional word. What is the total cost of a 35-word advertisement for 1 week?</p>

# Week 3

Name \_\_\_\_\_

Show your work.

1. Name the polygon.



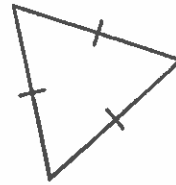
6. Estimate the product.

$$\begin{array}{r} 0.167 \\ \times 28.23 \\ \hline \end{array}$$

2. What is the value of the underlined digit?

6.487

7. Classify the triangle.



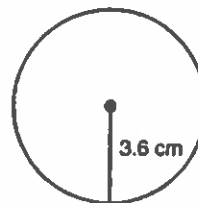
3. Find the value of  $n$ .

$$n \div 1000 = 0.035$$

8.  $2.415 - 1.079$

4. Write the expanded form.  
8.016

9. Find the circumference of the circle.

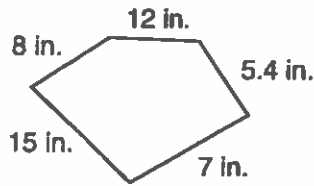


5. The difference between 0.39 and another number is 0.877. What is the other number?

10. Kim paid a total of \$86.76 for 3 sweaters. How much did she pay for each?

# Show your work.

11. Find the perimeter.



16.  $32.846 + 6.2 + 9.15$

12. The sum of 0.98 and another number is 1.157. What is the other number?

17. The diameter of a Ferris wheel is 38 ft. What is its radius?

13.  $0.08 \times 0.4$

18. Estimate the quotient.

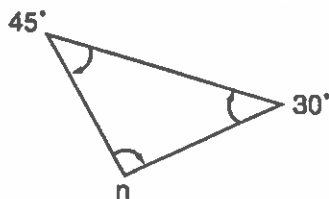
$$73 \overline{)148.235}$$

14. Classify the angle.



19.  $7.56 \div 3$

15. Find the measure of the missing angle.



20. **Tell About It**

Solve. Explain how you solved the problem.

The sides of a quadrilateral measure 2.7 m, 4.37 m, 5.239 m, and 3.916 m. Find the perimeter.

Name \_\_\_\_\_

Show your work.

1. Solve for  $n$ .

$$\frac{7}{8} = \frac{42}{n}$$

6. Choose the most reasonable temperature for water skiing.

- a. 20° C
- b. 75° C
- c. 35° C
- d. not given

2. Compare.

$$38 \text{ dL} \quad ? \quad 4 \text{ L}$$

- a. <
- b. >
- c. =

7.  $6 \text{ yd } 15 \text{ in.}$   
 $-2 \text{ yd } 27 \text{ in.}$

3. Rename the unit of time.

$$390 \text{ min} = \underline{\quad} \text{ h}$$

8. Write the percent.

0.07

4. Find the area.



9. Choose the name of the solid figure that can be made from the net.



- a. rectangular prism
- b. triangular prism
- c. cylinder
- d. hexagonal prism

5. There are 64 people on the train. Seventeen more than half of them will transfer to other trains. How many will transfer?

10. In June Sam lost 3 lb. In July he gained 7 lb. What was Sam's total loss or gain in June and July?



Show your work.

11. What is 6 % of 130?

16. Order from greatest to least.

$-7, 0, -2$

12. 4 gal = ? pt

17. Write 45% as a decimal.

13. Solve for  $x$ .

$$x + 731 = 3686$$

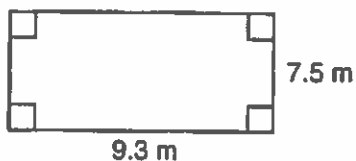
18. Compute.

$$-36 \div +12$$

14. Magnets with a regular price of \$7 are offered at a 15% discount. What is the discount?

19. A pool measures 5 feet long, 6 feet wide, and 5 feet deep. How many cubic feet of water are needed to fill it?

15. Find the area.



20. **Tell About It**

Solve. Explain how you solved the problem.

Today's temperature was  $-2^{\circ}$  F in the morning and  $18^{\circ}$  F in the evening. How many degrees did the temperature rise?

Name \_\_\_\_\_

Show your work.

1. Which decimal has the least value?

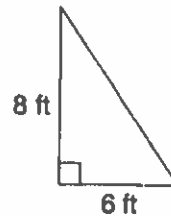
- a. 0.85
- b. 0.131
- c. 0.5
- d. 0.205

6. What is 75% in fraction form?

2. How many faces does a rectangular pyramid have?



7. Find the area.



3. Joe's test scores in math are 70, 85, 75, 80, and 80. Find Joe's mean score.

8. What is the prime factorization of 36?

4. Which is equivalent to 3.18 km?

- a. 0.318 m
- b. 318 m
- c. 31.8 m
- d. 3180 m

9. Which metric unit would be used to measure the width of a computer screen?

- a. liter
- b. kilogram
- c. centigram
- d. centimeter

5. Mary started to babysit at 9:30 A.M. and finished at 3:00 P.M. What is the total number of hours Mary babysat?

10. The volume of a cube with an edge of 9 cm is equal to:

# Show your work.

11. Li was absent from school 17 days and present 170 days. What is the ratio of days present to the number of days absent?

16. Add.

$$\begin{array}{r} 9 \text{ ft } 4 \text{ in.} \\ + 12 \text{ ft } 11 \text{ in.} \\ \hline \end{array}$$

12. Winnie bought a video recorder on sale for 20% off the regular price of \$180. How much did Winnie pay for the video recorder?

17. What is the distance, in miles, between two cities that are  $3\frac{1}{2}$  in. apart on a map drawn to the scale  $\frac{1}{2}$  in. = 200 mi?

13. One letter is chosen at random from the word EXCEED. What is the probability that the letter is an E?

18. Which statement is true?

a.  $+3 \times -2 = +3 \times +2$

b.  $-4 \div -1 = +8 \div +8$

c.  $+5 + -8 = -2 + -1$

d.  $-2 - -1 = -1 - -2$

14. Ray paid a sales tax of 8% on a book priced at \$6.50. How much sales tax did Ray pay?

19. The total cost of 3 cans of soup is \$.89. What is the total cost of 12 cans?

15. A certain bus has a capacity of 40 people. What is the least number of trips the bus must make to carry a total of 180 people?

20. The perimeter and area of a square both equal 16 square inches. What is the length of one side of the square?

# Show your work.

21. Round 6.347 to the nearest hundredth.

26. Rename.

$$22 \text{ qt} = \underline{\quad}$$

- a. 40 pt
- b.  $5 \frac{1}{2}$  gal
- c. 40 c
- d. 11 pt

22. Find the missing number.

$$\frac{6}{9} = \frac{42}{n}$$

27. Which shows  $\frac{20}{32}$  in simplest form?

- a.  $1 \frac{3}{5}$
- b.  $\frac{2}{3}$
- c.  $\frac{10}{16}$
- d.  $\frac{5}{8}$

23. Which shows 3 billion in expanded form?

- a.  $3 \times 100,000,000$
- b.  $3 \times 10,000,000,000$
- c.  $3 \times 1,000,000,000$
- d.  $3 \times 1,000,000$

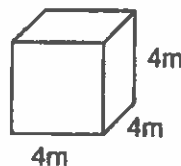
28.  $16 \div 1 \frac{1}{3}$

24. Compare.

$$3 \frac{7}{8} \underline{\quad} 3 \frac{5}{6}$$

- a. <
- b. >
- c. =

29. Find the surface area.



25. Choose the polygons used in the tessellation.



- a. rhombus, triangle
- b. triangle
- c. parallelogram, triangle
- d. square, triangle

30. Find the number that makes the equation true.

$$(5 \times 7) \div \underline{\quad} = 5$$

Show your work.

31. Find the mode of this set of data.  
27, 28, 30, 29, 28, 31, 26

36. Find the quotient.

$$5 \overline{)386,915}$$

32. Which fraction names the ratio  
154 to 14?

- a.  $\frac{10}{1}$                       b.  $\frac{1}{11}$   
c.  $\frac{11}{1}$                       d.  $\frac{10}{100}$

37. What is 75% of 1250?

33. Find the missing length.

$$650 \text{ mm} = \underline{?} \text{ m}$$

38.  $3\frac{3}{5} \div 2\frac{3}{10}$

34. A container of juice holds 1.8 L. Jen used 190 mL to make a smoothie. How many milliliters of juice are left?

39. Kris has 3 boxes. Each weighs 4 lb 8 oz. Find the total weight of the 3 boxes.

35. Find the volume of a rectangular prism with a length of 2 m, a width of 0.7 m, and a height of 5 m.

40. **Tell About It**

Solve. Explain how you solved the problem.

Which type of graph shows how a whole is divided into fractional parts?