1. What is the value of the expression:

 17 + 3(11 – 4) – 5

 2. A case of hot dogs weighs

 7.84 pounds. Which of these

 is a reasonable weight for

 each hot dog if there are 36

 hot dogs in the case?

 3. The model below represents $\sqrt{49}$ = 7.

 Which arrangements of small squares can be used to model a large square that represents $\sqrt{144}$ ?

A 6 rows of 24 squares

B 10 rows of 10 squares

C 12 rows of 12 squares

D 2 rows of 72 squares

4. Lillie’s grandmother is making potato salad for a family reunion. She uses three potatoes for each person attending the dinner. If she expects 32 people to attend the reunion, which proportion can be used to solve for *p*, the number of potatoes?

A $\frac{3}{1}$ = $\frac{32}{p}$ C $\frac{3}{32}$ = $\frac{1}{P}$

B $\frac{1}{3}$ = $\frac{p}{32}$ D $\frac{3}{1}$ = $\frac{P}{32}$

5. Caleb ate 3 big marshmallows in 30 seconds. At this rate, approximately how many minutes would it take Caleb to eat 20 marshmallows?

A 200 minutes

B 8 minutes

C 6 minutes

D 7 minutes

6. Ashlynn bought 4 equally- priced CD’s for $48. Caroline bought 7 CD’s that cost the same rate. How much did Caroline spend on her CD’s?

7. Look at this problem:

 40 $-$ 6 x 5 + 20 ÷ 4

 Which of these gives the correct order of operations for solving this problem?

A $-$, x, +, ÷

B ÷, x, $-$, +

C x, ÷, +, $-$

D x, ÷, $-$, +

NOW simplify the expression: \_\_\_\_

8. Mr. Franklin asked each of his 45 students to select their favorite radio station.

● $\frac{1}{3}$ of the students chose Station K.

● $\frac{1}{5}$ of the students chose Station L.

● The remaining students chose

 Station M.

How many students chose EACH station as their favorite station?

K: \_\_\_\_\_ L: \_\_\_\_\_ M: \_\_\_\_\_

9. Determine if EACH statement

 is TRUE or FALSE. If it is

 FALSE, then give the correct

 answer.

(1) $-2 ∙ -3 = -6$

(2) $5 ∙ -2 = 10$

(3) $-7 ∙ -2 = 14$

(4) $-2 ∙ 4 = -8$

(5) $-4 ∙ -3 = 12$

(6) $-2 + -3 = -5$

(7) $-4 + -3 = 7$

(8) $-1 - (-3) = -4$

10. Describe / name each set.

 **Set J:**

 **Set K:**

11. Coach Flores wants to get her brother a video game rental gift card for Christmas. There are four video stores in her neighborhood.



$55

$22

$36

$66

Find the unit cost of a game at EACH video store. Which store has the cheapest rental per game?

12. A 12-ounce jar of peanut butter costs $1.68. To the nearest cent, what is the cost per ounce?

13. Nick bought a package of 6

 Hershey candy bars for $4.50.

 Who else bought candy bars for

 the SAME UNIT price PER

 CANDY BAR?

A Jared bought a 3-pack of

 candy bars for $2.55.

B Cameron bought a 2-pack of

 candy bars for $1.70.

C Dillon bought a 5-pack of

 candy bars for $3.65.

D Kristen bought a 4-pack of

 candy bars for $3.00.

14. Which expression is represented by this model?

0

-

1

-

2

-

3

1

2

3

A 3 ● -1 = -3

B 3 ● 2 = 6

C 3 ● -2 = -6

D -3 + -2 = -6

15. The figure below models which equation?



A 8 ● 2 = 64

B 82 = 64

C 86 = 64

D 84 = 32

16. Simplify the expression.

 (2 + 8)2 ÷ 4 – 2 ● 8

 17. $∆$ SQR is similar to $∆$ SPT.



Which segment corresponds to PS?\_\_\_\_\_ QR? \_\_\_\_\_ SR?\_\_\_\_\_

18. A model of a sailboat is 9 inches high and 4 inches wide. If the actual sailboat is 36 feet high, what is the width?

19. Alyssa drew a map of her neighborhood. She used a scale in which 2 cm equals 5 miles. On the map, the distance between Alyssa’s house and the middle school is 8 cm. How many miles is it from Alyssa’s house to the middle school?

20. The two triangles below are

 similar.



Which proportion could be used to find p?

A $\frac{18}{12} = \frac{p}{11}$

B $\frac{p}{12} = \frac{18}{11}$

C $\frac{18}{11} = \frac{12}{p}$

D $\frac{18}{11} = \frac{p}{12}$

21. Every day the Pruneda family eats about $\frac{1}{2}$ box of cereal. At this rate, how many boxes of cereal does the Pruneda family need to buy to have enough cereal for 3 weeks?

A 21 B 11 C 10 D 8

22. Which equation can be used to find *y*, the number of hours in *x days*?

 y

hours

 x

days

A y=100x

B y= 24x

C y= 12x

D y=$\frac{x}{24}$

23. Which statement is FALSE?

A $\frac{20}{-5} = -4$

B $\frac{-15}{-3} = 5$

C $\frac{-12}{-2} = 6$

D $-4 - -5 = -9$

24. Look at the two pictures below; they are similar.

x

18 in.



 Which proportion can be

 used to find x?

A $\frac{x}{24} = \frac{30}{18}$ C $\frac{x}{30} = \frac{18}{24}$

B $\frac{x}{18} = \frac{30}{20}$ D $\frac{x}{24} = \frac{18}{20}$

25. Write 2 statements for each

 model.





$$\sqrt{25}=5$$

$$5^{2} =25$$



26. The prices of three different Monster drink cans are given

 below.

12 oz. can 🡪 $1.80

16 oz. can 🡪 $2.40

20 oz. can 🡪 $3.20

 Which Monster drink can has the lowest price per ounce?

A 12 oz can only

B 16 oz can only

C 20 oz can only

D Both the 12 oz & 16 oz cans

27. What measurement

 relationship is shown by each

 graph?

1

2

4

3

5

1

2

3

4

 5

A feet to yards

B feet to inches

C cups to ounces

D days to hours

E pints to quarts

F quarts to gallons

15

1

2

4

3

5

5

10

25

20

29. Grid C #1. Mrs. Carrera bought a new recliner for her husband. The regular price of the recliner was $780; however, it was on sale for 30% off. What was the recliner’s sale price?



30. Grid C #2. Jazlynn’s senior ring cost $276 plus 8% sales tax. What was the total cost of Jazlynn’s senior ring?

