

Fourth Grade MSTEP Homework Packet #7

Sent home on 4/18/19

Return by 4/25/19

Student's Name

Mastery Test

Estimated time: 45 minutes

Directions: Read each question and choose the best answer.

- 1 What is the value of 6 in 6,849,321?

(A) *six hundred*
 (B) *six thousand*
 (C) *six hundred-thousand*
 (D) *six million*

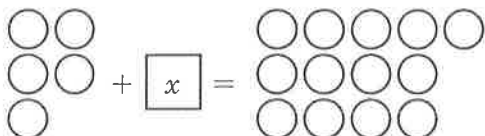
- 2 What is the rule for this pattern?

1, 4, 16, 64, 256, . . .

(A) Multiply by 4.
 (B) Multiply by 2.
 (C) Add 2.
 (D) Add 4.

- 3 What does x equal in this equation?

$$5 + x = 13$$



(A) $x = 6$
 (B) $x = 8$
 (C) $x = 18$
 (D) $x = 21$

- 4 The population of Marysville is 540,712. Which answer shows 540,712 in word form?

(A) *five hundred forty thousand, seven hundred twelve*
 (B) *fifty-four thousand, seven hundred twenty-one*
 (C) *fifty-four thousand, seven hundred twelve*
 (D) *five hundred forty and seven hundred twelve*

- 5 Antonio picked 24 cups of blackberries. That is 8 times as many cups as Donna picked. Which equation can be used to find the number of cups of blackberries Donna picked?

(A) $24 \times 8 = b$
 (B) $b + 8 = 24$
 (C) $8 \div b = 24$
 (D) $24 = 8 \times b$

- 6 Wendy practices her violin $\frac{1}{2}$ hour each day. How many hours does she practice in a week (7 days)?

(A) $\frac{1}{14}$ hours
 (B) $\frac{2}{7}$ hours
 (C) $\frac{7}{14}$ hours
 (D) $\frac{7}{2}$ hours

- 7 Which answer shows a factor pair for 56?

(A) 3×18
 (B) 4×14
 (C) 6×7
 (D) 8×8

- 8 Yukie's address is a prime number. Which could be her address?

(A) 17 Elm Street
 (B) 26 Elm Street
 (C) 39 Elm Street
 (D) 45 Elm Street

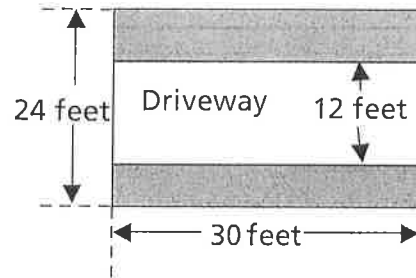


- 9 Which shows the same type of pattern as the one below?



- (A)
- (B)
- (C)
- (D)
- 10 Steve's height is a multiple of 8. Which could be Steve's height?
- (A) 52 inches
 (B) 66 inches
 (C) 72 inches
 (D) 81 inches
- 11 Which comparison is NOT true?
- (A) $346,019 > 346,372$
 (B) $679,511 > 671,064$
 (C) $129,002 < 129,008$
 (D) $762,426 < 762,822$
- 12 Jason built two birdhouses. One is $11\frac{3}{8}$ inches tall. The other is $14\frac{5}{8}$ inches tall. How much taller is the second birdhouse than the first?
- (A) $2\frac{2}{8}$ inches
 (B) $3\frac{2}{8}$ inches
 (C) $3\frac{4}{8}$ inches
 (D) 26 inches

- 13 Vicky wants to plant grass on each side of her driveway.



Which box of grass seed should she buy?

- (A)
 (B)
 (C)
 (D)
- 14 Which number rounded to the nearest thousand is NOT 35,000?
- (A) 34,680 (C) 35,050
 (B) 35,200 (D) 33,900
- 15 Two pilots have flown 56,319 and 74,112 total miles. To the nearest thousand, how many more miles has the second pilot flown than the first pilot?
- (A) 10,000 (C) 20,000
 (B) 18,000 (D) 22,000

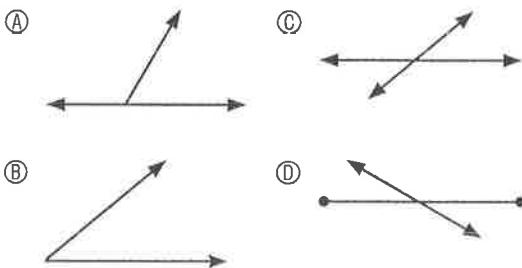
16 Jim bought 6 boxes of oranges. There are 48 oranges in each box. He uses 10 oranges for each glass of orange juice. How many full glasses, g , of orange juice can he make?

- (A) $g = 27$ (C) $g = 29$
 (B) $g = 28$ (D) $g = 30$

17 During one month, Mostly Music sold 16,708 CDs. The next month the store sold 20,416 CDs. How many more CDs did the store sell the second month?

- (A) 3,708 (C) 4,718
 (B) 3,718 (D) 16,312

18 Amy drew a line and a line segment. Which is her drawing?



19 For which product is 3,600 a reasonable estimate?

- (A) 12×29
 (B) 42×86
 (C) 72×15
 (D) 96×53

20 Seferina knitted $\frac{3}{9}$ of a scarf on Monday and $\frac{2}{9}$ of the scarf on Tuesday. What fraction of the scarf did she knit in those two days?

- (A) $\frac{5}{9}$ (C) $\frac{6}{81}$
 (B) $\frac{5}{18}$ (D) $\frac{1}{9}$

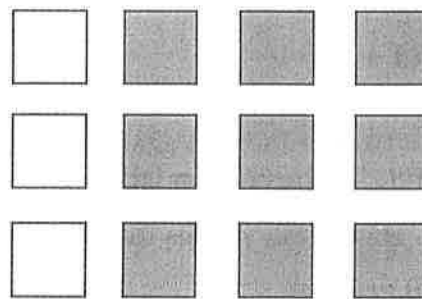
21 Which pair of fractions has a sum of $\frac{3}{8}$?

- (A) $\frac{1}{8} + \frac{2}{8}$
 (B) $\frac{1}{8} + \frac{4}{8}$
 (C) $\frac{2}{8} + \frac{2}{8}$
 (D) $\frac{2}{8} + \frac{3}{8}$

22 Jason wrote the equation $56 = 8 \times n$. Which problem could he have been solving?

- (A) I rode my bike 56 kilometers. That is 8 times farther than I rode last week. How far did I ride last week?
 (B) I rode my bike 8 kilometers. I am riding 56 kilometers in all. How much farther do I have to ride?
 (C) I rode my bike 56 kilometers. That is 8 kilometers farther than I rode last week. How far did I ride last week?
 (D) I rode my bike 8 kilometers. I have 56 kilometers farther to ride. How far will I ride in all?

23 Phil colored $\frac{9}{12}$ of these squares.



What fraction is the equivalent of $\frac{9}{12}$?

- (A) $\frac{3}{4}$ (C) $\frac{3}{7}$
 (B) $\frac{2}{3}$ (D) $\frac{1}{19}$



24 Which statement is true?

- (A) $\frac{5}{7} < \frac{1}{2}$
- (B) $\frac{3}{8} > \frac{3}{4}$
- (C) $\frac{2}{3} < \frac{5}{6}$
- (D) $\frac{3}{8} = \frac{8}{10}$

25 Luis cut $\frac{4}{10}$ meters of rope. What is the decimal for the amount of rope he cut?

- (A) 0.004 meters
- (B) 0.04 meters
- (C) 0.4 meters
- (D) 4 meters

26 Which fraction is equal to $6\frac{2}{3}$?

- (A) $\frac{18}{3}$
- (B) $\frac{20}{3}$
- (C) $\frac{26}{3}$
- (D) $\frac{62}{3}$

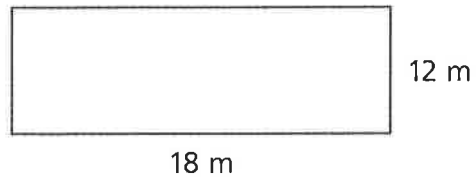
27 Which statement is equal to $7 \times (3 \times 2)$?

- (A) $7 + 6$
- (B) $(7 \times 3) \times 2$
- (C) $7 + (3 + 2)$
- (D) $(7 + 3) \times (7 + 2)$

28 Mora bought 4 kilograms of fancy cat food. How many grams did she buy?

- (A) 4,000 grams
- (B) 400 grams
- (C) 40 grams
- (D) $\frac{1}{4}$ gram

29 A square has the same perimeter as this rectangle.



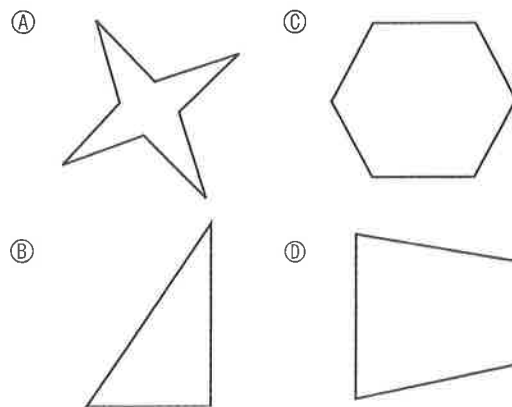
What is the length of each side of the square?

- (A) 12 m
- (B) 15 m
- (C) 16 m
- (D) 18 m

30 The socks Jenny likes are priced at 3 pairs for \$7. How many pairs of socks can she buy for \$42?

- (A) 6
- (B) 14
- (C) 15
- (D) 18

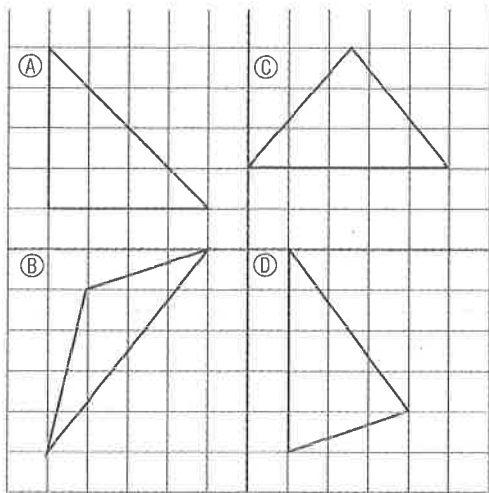
31 Which figure has exactly one line of symmetry?



32 Carol bought 3 CDs that cost \$12 each. She gave the clerk \$50. How much change did she get back?

- (A) \$36
- (B) \$24
- (C) \$16
- (D) \$14

33 Which is an obtuse triangle?



34 Which statement is true of both a parallelogram and a square?

- Ⓐ Both have at least two right angles.
- Ⓑ Both have opposite sides parallel.
- Ⓒ Both have all angles equal.
- Ⓓ Both have all sides the same length.

35 Which BEST describes two lines that meet at a right angle?

- Ⓐ intersecting
- Ⓑ vertical
- Ⓒ parallel
- Ⓓ perpendicular

36 Which quadrilateral has four right angles?

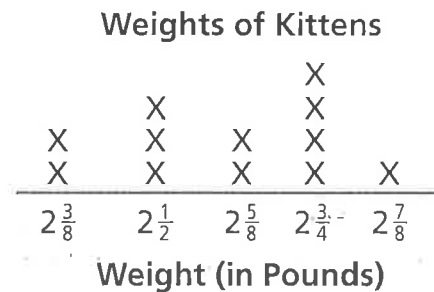
- Ⓐ trapezoid
- Ⓑ parallelogram
- Ⓒ square
- Ⓓ rhombus

Write an answer for each question.

37 Write 35,609 in expanded notation.

Answer: _____

38 Amy made this line plot of some kittens' weights.



What is the difference between the weights of the heaviest and the lightest kittens?

Answer: _____

39 Jordan got an order of 1,152 notepads for his store. They came in 8 boxes. How many notepads were in each box?

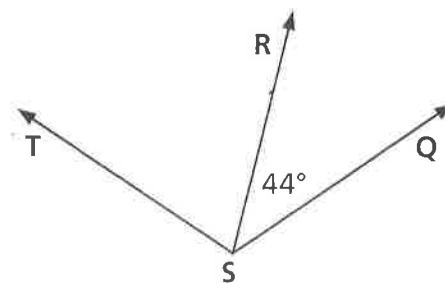
Answer: _____

40 What is the quotient?

$$900 \div 9 = \square$$

Answer: _____

41 Angle TSQ measures 123° . What is the measure of angle RST ?



Answer: _____



42 Marsha spent \$2,650 for a used car. Tony spent 4 times that amount for his used car. How much did Tony spend?

Answer: _____

43 How many hours are there in a 31-day month? (Remember, there are 24 hours in a day.)

Answer: _____

44 How many 6-ounce servings can Sally make from 15 pounds of turkey? (Remember, there are 16 ounces in a pound.)

Answer: _____

45 Write a fraction the equivalent of $\frac{3}{10}$ that has a denominator of 100.

Answer: _____

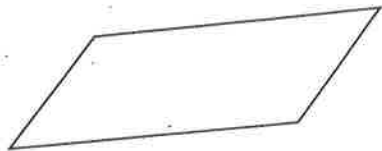
46 Wesley spent \$93.25 last week. Judy spent \$92.90. Write $<$, $>$, or $=$ to compare the amounts they spent.

\$93.25 ○ \$92.90

47 Matt can walk 4 miles in an hour. How far can he walk in $\frac{3}{4}$ of an hour?

Answer: _____

48 Classify the angles and identify perpendicular and parallel sides to describe this quadrilateral. Classify the quadrilateral.



Answer: _____

49 Create a pattern that follows the rule "add 6."

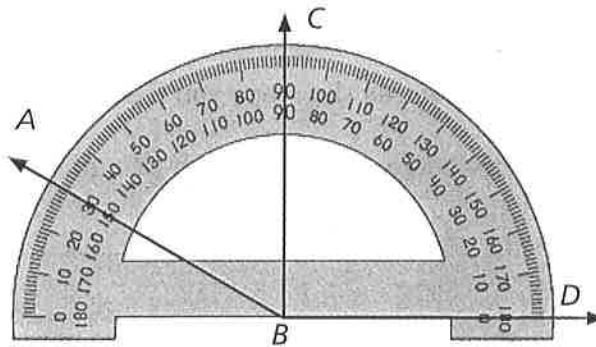
Pattern: _____

Show all of your work. Explain in words the steps you follow.

Explanation: _____



50 Find the measures of $\angle ABC$, $\angle CBD$, and $\angle ABD$.



Answer: _____

Show OR describe each step of your work. Explain in writing each of your steps.

Explanation: _____



Points Earned/Total = ____/50

