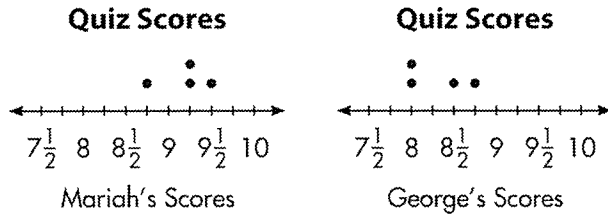


5th Grade Summer Math Packet ☺

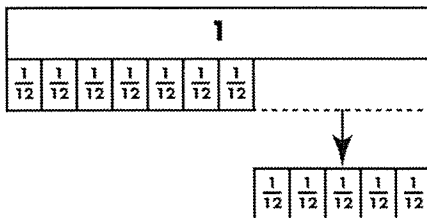
Name _____

1. In Mr. Daniels' class, all quizzes are worth 10 points. Mr. Daniels gives partial credit for the work that is shown. The line plots show Mariah's and George's scores on four quizzes. How much greater was Mariah's highest score than George's highest score?



2. Draw a picture to find the product of $2 \times \frac{3}{5}$.

3. What subtraction problem did Andrea show using the fraction strips below?



4. Patrick compares two amounts of money. Is the comparison correct? Explain.

$$\$23.15 > \$25.84$$

5. Erin buys a jewelry set for \$27.63. She pays with two \$20 bills. List Erin's change using the least number of coins and bills. Draw or use coins and bills to solve.

6. Four friends want to run 4 miles total. If they have run $2\frac{1}{8}$ miles so far, which shows how much each friend could have run?

A $\frac{1}{8} + \frac{1}{8} + \frac{3}{8} + \frac{4}{8}$

B $\frac{6}{8} + \frac{2}{8} + \frac{5}{8} + \frac{4}{8}$

C $\frac{2}{8} + \frac{4}{8} + \frac{2}{8} + \frac{8}{8}$

D $\frac{2}{8} + \frac{4}{8} + \frac{4}{8} + \frac{4}{8}$

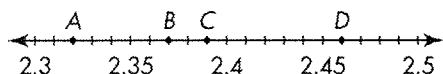
7. **A.** Select all the expressions that represent the following: Peter walked $\frac{5}{8}$ mile each day for 10 days.

- $10 \times \frac{5}{8}$
- $10 \times \frac{1}{8}$
- $5 \times 2\frac{2}{8}$
- $10 \times 5 \times 8$
- $\frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{5}{8} + \frac{5}{8}$.

- B.** How far did Peter walk in all?

8. Timothy completed a bicycle course to raise money for an animal shelter in his community. It took him $3\frac{3}{6}$ hours to complete the first part of the course, $2\frac{5}{6}$ hours to complete the second part of the course, and $1\frac{2}{6}$ hours to complete the last part of the course. How long did it take Timothy to complete the entire course?

9. Name the decimal for each point on the number line.



A =

C =

B =

D =

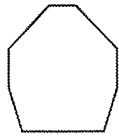
10. Andrew works in a law office. One day, he spent 2 hours 13 minutes answering phone calls, 1 hour 47 minutes returning emails, and 3 hours 26 minutes preparing presentations. How long did Andrew work?

11. Larry measures an object's mass in grams. Which of the following objects is he most likely measuring?

- A** A lemon
- B** A car
- C** A surfboard
- D** A horse

12. Marco has 2 pieces of rope that are each 8 yards long. How many feet of rope does Marco have? Explain.

13. A. Which figure below has more than one line of symmetry?



Octagon



Pentagon



Pentagon

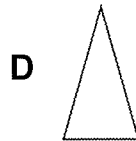
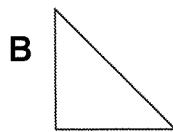
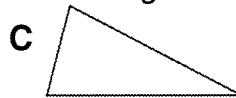


Triangle

- A Octagon C Rectangle
 B Pentagon D Triangle

- B. What is the total number of lines of symmetry for all of the figures shown in A?

14. A. Diego draws an example of a right triangle. Which triangle could be Diego's drawing?



- B. What type of triangle is shown the most in the answer choices in A?

- A Acute triangle
 B Right triangle
 C Obtuse triangle
 D Equilateral triangle

15. A. Complete the table to show the number of triangles in each figure if the pattern shown continues.

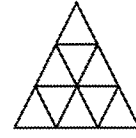
Rule:



1



2



3

$1 \times 1 = 1$

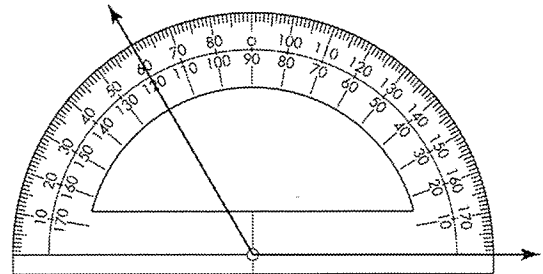
$2 \times 2 = 4$

$3 \times 3 = 9$

Figure	7	9	11	13
Triangles		81		

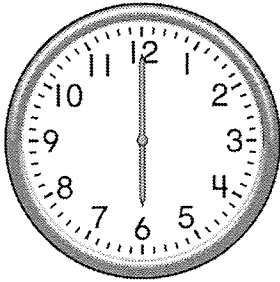
- B. Write the rule for the number of triangles in words.

16. Which is the measure of the angle shown? What type of angle is it?



- A 60° ; acute C 140° ; acute
 B 120° ; obtuse D 180° ; obtuse

17. What is the measure of the angle formed by the hands of the clock?



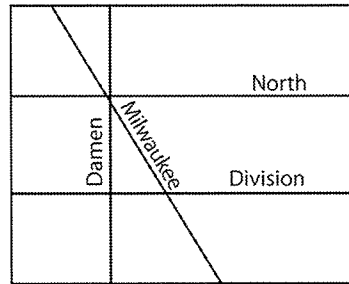
- A 45° C 180°
 B 90° D 360°

18. What are all the names that could be used for the shape below? Explain.



- A Quadrilateral, trapezoid; the shape appears to have 1 pair of parallel sides.
 B Quadrilateral, parallelogram, rectangle; the shape appears to have 2 pairs of parallel sides and 4 right angles.
 C Quadrilateral, parallelogram, rhombus; the shape appears to have 2 pairs of parallel sides and 4 sides of equal length.
 D Quadrilateral, parallelogram, square; the shape appears to have 2 pairs of parallel sides of equal length and 4 right angles.

19. Which streets on the map appear to be parallel to each other?

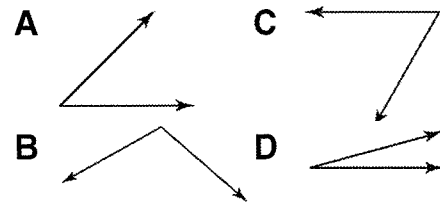


- A North and Damen
 B North and Milwaukee
 C Milwaukee and Division
 D Division and North

20. Remy wanted to measure the angle of a slide at the playground. He used a sheet of folded paper that formed a 25° angle. He measured and found that two of the folded paper angles would fit in the angle made by the slide and the ground. What was the angle of the slide? Write an equation modeling Remy's work.

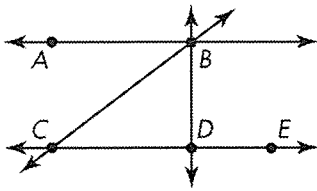
- A $45^\circ \times 3 = 75^\circ$ C $25^\circ + 20 = 45^\circ$
 B $25^\circ \times 2 = 50^\circ$ D $15^\circ \times 3 = 30^\circ$

21. A. Which angle is NOT acute?



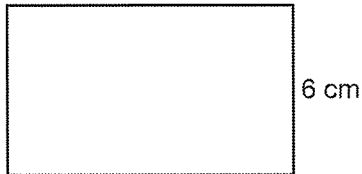
- B. What type of angle is not shown in the answer choices for A?

22. Which angle below is an acute angle?



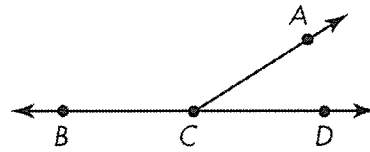
- A $\angle ABD$
 B $\angle BDC$
 C $\angle BCD$
 D $\angle CDE$

23. The perimeter of the rectangle shown below is 28 centimeters.



What is the area of the rectangle?
 Explain.

24. $\angle ACD$ measures 32° . Which equation gives the measure of $\angle ABC$?



- A $100^\circ + 32^\circ = 132^\circ$
 B $180^\circ - 32^\circ = 148^\circ$
 C $90^\circ + 32^\circ = 122^\circ$
 D $90^\circ \times 2 = 180^\circ$

25. **A.** Seth's book weighs 3 pounds, and his pencil case weighs 4 ounces. Which is the total weight of the book and pencil case in ounces?
 A 7 ounces
 B 34 ounces
 C 48 ounces
 D 52 ounces
- B.** For a different class, Seth's book weighs only half as much. What is the total weight of the second book and his pencil case?
 A 1 pound 10 ounces
 B 1 pound 12 ounces
 C 2 pounds 4 ounces
 D 3 pounds 2 ounces

26. How many lines of symmetry does this shape have?



- A 0
 B 1
 C 2
 D 4

27. Rolland says that if two rectangles have different perimeters, they must also have different areas. Does Rolland's reasoning make sense? Explain.

-
28. Trevor knows that 1 pint equals 2 cups. His ice cream recipe calls for 4 pints of milk. How many cups of milk does Trevor need?

- A $\frac{1}{2}$ cup
B 2 cups
C 4 cups
D 8 cups

29. The first number in a pattern is 6. The pattern follows the rule "Add 1, Multiply by 2" Which of the following shows the next four numbers in the pattern?

- A 7, 8, 9, 18
B 12, 13, 26, 27
C 7, 14, 15, 30
D 12, 14, 28, 28

-
30. A. Each plant in Micah's garden has 7 blooms. Complete the table for 9 plants and 11 plants.

Plants	Blooms
3	21
5	35
7	49
9	
11	

- B. Write an expression for the number of blooms for p plants.

31. In which number is the value of the underlined digit ten times the value of the bold digit?

- A 505
- B 5,00**5**
- C 5,500
- D 50,**5**00

32. Find the product.

$$48 \times 28$$

- A 1,500
- B 1,344
- C 800
- D 76

33. Multiply.

$$3 \times 47$$

- A 50
- B 121
- C 141
- D 150

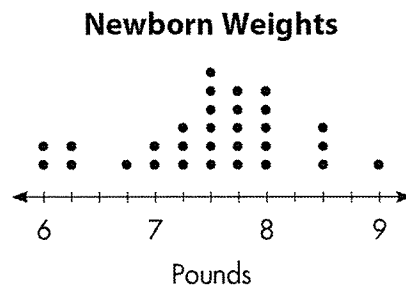
34. Which lists multiples of 8?

- A 8, 16, 24, 46
- B 8, 16, 24, 48
- C 8, 15, 32, 50
- D 8, 16, 40, 63

35. Gail ran $4\frac{6}{10}$ miles on Saturday and $6\frac{8}{10}$ miles on Sunday. How many miles did Gail run over the weekend?

- A 11 miles
- B $10\frac{14}{10}$ miles
- C $11\frac{4}{10}$ miles
- D $14\frac{2}{10}$ miles

36. The weights of babies born at a hospital in November are shown in a line plot. How many more babies weighed $8\frac{1}{2}$ pounds than $6\frac{1}{4}$ pounds?

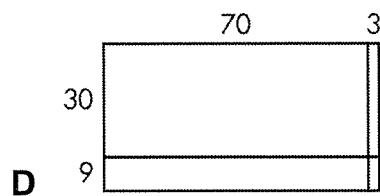
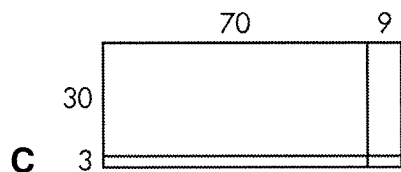
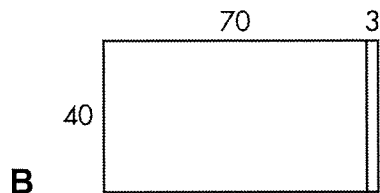
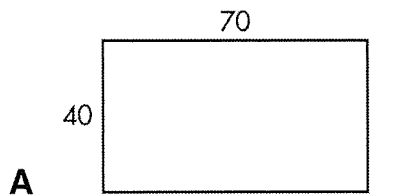


- A 1 baby
- B 2 babies
- C 3 babies
- D 4 babies

37. Round 43,628 to the thousands place.

- A 40,000
- B 43,000
- C 43,600
- D 44,000

38. Which area model can you use to find 39×73 ?



39. Use an estimate to decide if the answer is reasonable. If the answer is not reasonable, find the actual quotient.

$$\begin{array}{r} 621 \text{ R2} \\ 9 \overline{)7,341} \end{array}$$

- A** The answer is reasonable.
- B** No; 815 R6
- C** No; 815 R5
- D** No; 815 R4

40. Which comparison is correct?

A $\frac{2}{10} > \frac{3}{5}$

B $\frac{2}{4} > \frac{4}{8}$

C $\frac{2}{3} < \frac{10}{12}$

D $\frac{9}{12} < \frac{3}{6}$

41. Which decimal makes the comparison true?

$$7.68 > \underline{\hspace{2cm}}$$

- A** 8.81
- B** 8.68
- C** 7.86
- D** 7.56

42. Which of the following letters is **NOT** line symmetric?

- A** A
- B** E
- C** G
- D** Y

43. Find the sum.

$$8,852 + 4,113$$

- A** 11,956
- B** 12,865
- C** 12,965
- D** 13,065

44. Brandy made 7 batches of cookies. Each batch contained 12 cookies. She put the same number of cookies in each of 5 bags. How many cookies were not put in bags?
- A 16 cookies
 - B 12 cookies
 - C 12 cookies
 - D 2 cookies
45. Ellen is making jewelry sets that contain a bracelet and a pair of earrings. Each bracelet uses 3 times as many beads as one earring. Ellen uses 13 beads for each earring. How many beads does Ellen need to make one jewelry set?
- A 13 beads
 - B 39 beads
 - C 52 beads
 - D 65 beads
46. Inez and Joel work at a store that sells cell phones. Inez worked for 7 hours and 23 minutes. Joel worked for 4 hours and 51 minutes. How much longer did Inez work than Joel?
- A 2 hours 32 minutes
 - B 12 hours 14 minutes
 - C 3 hours 28 minutes
 - D 3 hours 32 minutes
47. Which is the same length as 4 kilometers?
- A 4,000 meters
 - B 4,000 centimeters
 - C 4,000 millimeters
 - D 40,000 millimeters
48. The following are rules for repeating patterns. For which rule will the 12th shape be a circle?
- A Triangle, Circle, Square
 - B Circle, Square
 - C Rectangle, Circle
 - D Circle, Circle, Triangle
49. Subtract.
- $$50,032 - 17,956$$
- A 47,924
 - B 42,976
 - C 32,136
 - D 32,076
50. Nick cut a circular cookie into 5 equal slices. What is the angle measure of each slice?
- A 36°
 - B 72°
 - C 108°
 - D 144°

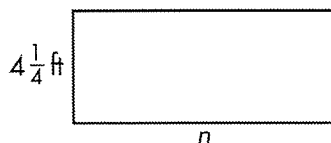
51. Franco made a dozen muffins for his party. Upon taking them out of the oven, he noticed that 2 of the muffins were badly burned. Franco served $\frac{7}{10}$ of the remaining muffins. Which equation shows the fraction of the non-burned muffins that remains?

A $\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$
B $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$
C $\frac{12}{12} - \frac{5}{12} = \frac{7}{12}$
D $\frac{10}{10} - \frac{3}{10} = \frac{7}{10}$

52. Which expression does **NOT** equal $\frac{10}{12}$?

A $\frac{5}{12} + \frac{5}{12}$
B $\frac{3}{12} + \frac{2}{12} + \frac{2}{12} + \frac{2}{12} + \frac{1}{12}$
C $\frac{4}{12} + \frac{3}{12} + \frac{2}{12} + \frac{1}{12}$
D $\frac{5}{12} + \frac{4}{12} + \frac{3}{12} + \frac{2}{12} + \frac{1}{12}$

53. The perimeter of the dining room table shown below is 23 feet. What is the missing side length?



- A 14 feet
B $7\frac{2}{4}$ feet
C $7\frac{1}{4}$ feet
D 7 feet

54. Mandy used the rule “Add 6” to make a pattern. She started with 20 and wrote the next 5 numbers in her pattern. Which number does **NOT** belong in Mandy’s pattern?

- A 26
B 32
C 38
D 43

55. Find the product.

$$2,715 \times 7$$

- A 14,025
B 15,500
C 19,005
D 21,000

56. Find the quotient.

$$463 \div 6$$

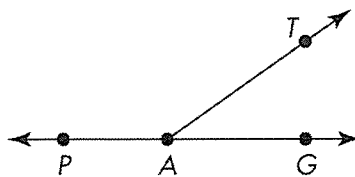
- A 72
B 77
C 77 R1
D 707 R1

57. Which fraction is **NOT** equivalent to the point shown on the number line?



- A** $\frac{3}{5}$
B $\frac{6}{10}$
C $\frac{60}{100}$
D $\frac{10}{12}$
58. Hakim is making birdhouses. Each birdhouse uses $\frac{7}{8}$ yard of wood. What is the total length of wood Hakim will need to build 5 birdhouses?
- A** $4\frac{3}{8}$ yards
B $5\frac{7}{8}$ yards
C $1\frac{4}{8}$ yards
D $9\frac{2}{8}$ yards
59. Liam bought pizza and wings for \$27.58. How much change should Liam receive if he gave the clerk three \$10-bills? Use coins and bills to help solve.
- A** \$1.52
B \$2.42
C \$2.52
D \$12.42

60. Which geometric term describes $\angle TAG$?



- A** Acute
B Obtuse
C Right
D Straight
61. Which are the partial products of $3,706 \times 4$?
- A** 1,200 280 10
B 1,200 280 24
C 12,000 2,800 24
D 12,000 280 24
62. Find the product.
 57×34
- A** 399
B 1,238
C 1,921
D 1,938

63. Which lists all the factors of 78?

- A 1, 2, 3, 6, 13, 26, 39, 78
- B 1, 2, 4, 19, 39, 78
- C 1, 2, 6, 13, 39, 78
- D 2, 3, 6, 13, 26, 39

64. Classify the triangle by its sides and by its angles.



- A Isosceles, Obtuse
- B Scalene, Obtuse
- C Isosceles, Acute
- D Scalene, Acute

65. A tree was 17 feet tall when it was planted. It grew 8 times that height in 15 years. How much taller is the tree than when it was planted?

- A 119 feet
- B 136 feet
- C 247 feet
- D 255 feet

66. Steve rounds his favorite number to the nearest hundred to get 400. Which of these could NOT be Steve's favorite number?

- A 396
- B 460
- C 448
- D 375