

Grade 5, Beginning of Year Worksheet

*Complete the circled problems and turn them in the first week of school.*

Multiple Choice

1. Count back to subtract.  
Which is 10 less than 74?

- a. 54
- b. 84
- c. 64
- d. 74

2. Which is the difference?

$$\begin{array}{r} 80 \\ - 10 \\ \hline \end{array}$$

- a. 70
- b. 60
- c. 7
- d. 90

3. Add mentally.

Sam has 67 crayons. Mary has 20 crayons.  
How many crayons do they have in all?

- a. 87
- b. 69
- c. 80
- d. 27

4. The red bus has 8 more riders than the blue bus. The blue bus has 3 riders. How many riders are on the red bus?

- a. 11
- b. 5
- c. 14
- d. 8

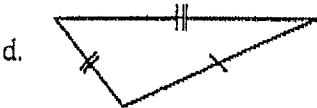
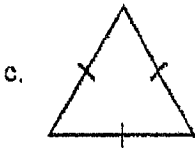
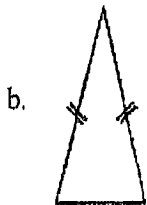
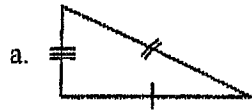
5. Solve by making 10.

Sam's cat has 8 kittens. Yoko's cat has 7 kittens. How many kittens are there?

- a. 15
- b. 17
- c. 16
- d. 14

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6. Which triangle is an equilateral triangle?



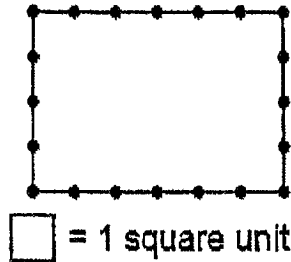
7. Why is a circle not a polygon?

- a. A circle is not flat.
- b. A circle is not closed.
- c. A circle does not have straight sides.
- d. A circle does not have points.

8. Which type of triangle has no sides of equal length?

- a. scalene triangle
- b. equilateral triangle
- c. isosceles triangle
- d. right triangle

9. Each tile has an area of 1 square unit. What is the area of the rectangle?

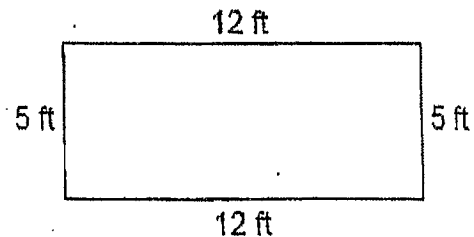


- a. 4 square units
- b. 6 square units
- c. 20 square units
- d. 24 square units

10. A rectangular rug is 2 feet long and 9 feet wide. What is the area of the rug?

- a. 18 square feet
- b. 11 square feet
- c. 22 square feet
- d. 29 square feet

11. Linda is tiling her kitchen floor. The diagram shows the rectangular floor. Each tile has an area of 1 square foot. How many tiles are needed to cover the kitchen floor?



- a. 12
- b. 17
- c. 50
- d. 60

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12. Which is the word name for the fraction  $\frac{5}{9}$ ?

- a. one ninth
- b. five ones
- c. five ninths
- d. nine fifths

13. Which is the fraction for the shaded part of the figure?

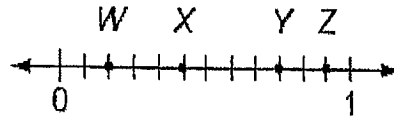


- a.  $\frac{1}{3}$
- b.  $\frac{1}{4}$
- c.  $\frac{3}{4}$
- d.  $\frac{3}{7}$

14. Which lists the fractions in order from least to greatest?

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

15. Which point on the number line shows the fraction  $\frac{11}{12}$ ?

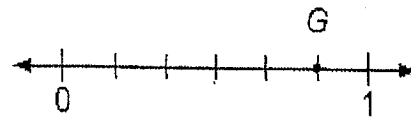


- a. X
- b. Y
- c. W
- d. Z

16. Tabitha wants to show the unit fraction  $\frac{1}{6}$  on a number line. How many equal parts must the number line show between 0 and 1?

- a. 1
- b. 5
- c. 6
- d. 7

17. Which fraction is shown by point G on this number line?



- a.  $\frac{1}{4}$
- b.  $\frac{1}{6}$
- c.  $\frac{4}{6}$
- d.  $\frac{4}{7}$

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18. Each student in class has 3 markers. There are 10 students in class. How many markers are there in all?

- a. 30
- b. 13
- c. 10
- d. 3

19. A group of 42 people are going on a field trip. Each van can hold 6 people. What is the least number of vans needed to fit all the people on the trip?

- a. 6
- b. 36
- c. 42
- d. 7

20. A gardener plants 14 trees in 7 rows. Each row has the same number of trees. How many trees are in each row?

- a. 2
- b. 7
- c. 7
- d. 14

21. Tameeka makes 9 gift bags for a party. She starts with 45 pieces of candy and puts the same amount of candy in each bag. How many pieces of candy does Tameeka put in each gift bag?

- a. 5
- b. 6
- c. 9
- d. 36

22. Tamara uses the Distributive Property to find a product. Which number is missing from her work?

$$\begin{aligned} 7 \times 6 &= (7 \times 2) + (7 \times \underline{\quad}) \\ &= 14 + 28 \\ &= 423 \end{aligned}$$

- a. 2
- b. 4
- c. 6
- d. 8

23. Compare. Choose  $<$ ,  $=$ , or  $>$ .

$$9 \times 3 \quad ? \quad 3 \times 9$$

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

24. David has 3 boxes of pencils with 10 pencils each. Richard has 10 boxes of pencils with 3 pencils each. Which statement is true?

- a. David has more pencils.
- b. Richard has more pencils.
- c. They both have 30 pencils.

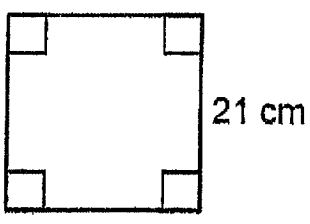
25. Which number completes both sentences?

$$\begin{aligned} 16 \div 2 &= ? \\ ? \times 2 &= 16 \end{aligned}$$

- a. 8
- b. 2
- c. 16
- d. 14

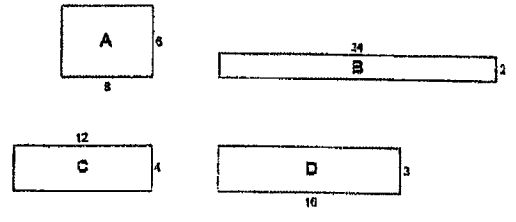
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34. Which is the area of the square?



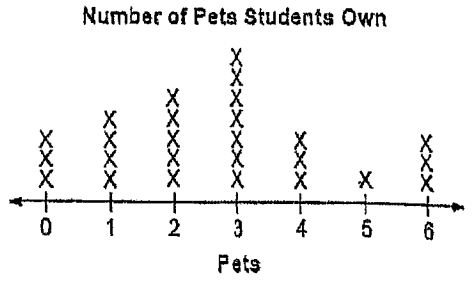
- a.  $42 \text{ cm}^2$
- b.  $84 \text{ cm}^2$
- c.  $420 \text{ cm}^2$
- d.  $441 \text{ cm}^2$

35. The four rectangles all have the same area. Which rectangle has the greatest perimeter? Use the perimeter formula.



- a. A
- b. B
- c. C
- d. D

36. The line plot shows the number of pets each student owns. A new student joins the class. She has 3 pets. Now how many students own 3 pets?



- a. 0
- b. 4
- c. 6
- d. 8

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40. Which shows the correct place value of each digit in 247,358?

- a. 2 hundred thousands, 4 ten thousands, 7 thousands, 3 hundreds, 5 tens, 8 ones
- b. 2 hundred thousands, 4 hundred thousands, 7 thousands, 3 hundreds, 5 tens, 8 ones
- c. 2 hundred thousands, 4 ten thousands, 7 ten thousands, 3 hundreds, 5 tens, 8 ones
- d. 2 thousands, 4 thousands, 7 thousands, 3 hundreds, 5 tens, 8 tens

41. Which is the standard form of ninety-six thousand, forty-five?

- a. 9,645
- b. 960,450
- c. 96,045
- d. 96,450

42. What is the word name for 3,725,627?

- a. three million, seven hundred twenty-five thousand, six hundred twenty-seven
- b. three hundred thousand, twenty-five thousand, six hundred twenty-seven
- c. three million, twenty-five thousand, six hundred twenty-seven
- d. three million, seven hundred twenty-five thousand, twenty-seven

43. Which is a reasonable estimate of the sum?

$$3,199 + 960 + 1,145 = ?$$

- a. 5,314
- b. 5,300
- c. 5,100
- d. 5,280

44. Which shows \$67.51 rounded to the nearest dollar?

- a. \$67.00
- b. \$70.00
- c. \$67.50
- d. \$68.00

45. Glen scores 918 points on a video game. Valerie scores 871 points on the same game. How many more points does Glen score than Valerie?

- a. 147
- b. 167
- c. 47
- d. 1,789

46. Which is the difference?

$$\begin{array}{r} 7,040 \\ -6,873 \\ \hline \end{array}$$

- a. 1,277
- b. 177
- c. 267
- d. 167

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53. Compare. Choose  $<$ ,  $=$ , or  $>$ .

$$\frac{3}{11} \quad ? \quad \frac{8}{11}$$

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

54. Jermon cuts three different lengths of wooden boards. They are  $\frac{1}{2}$  ft,  $\frac{1}{4}$  ft, and  $\frac{3}{4}$  ft long. Which board is the longest?

- a.  $\frac{1}{2}$  ft
- b.  $\frac{1}{4}$  ft
- c.  $\frac{3}{4}$  ft

55. Use the fraction strip to subtract. Which is the difference?

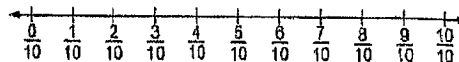
$$\frac{6}{11} - \frac{4}{11} = ?$$



- a.  $\frac{2}{11}$
- b.  $\frac{6}{11}$
- c.  $\frac{4}{11}$
- d.  $\frac{5}{11}$

56. Use the number line to find the sum.

$$\frac{1}{10} + \frac{1}{10}$$



- a.  $\frac{2}{20}$
- b.  $\frac{10}{2}$
- c.  $\frac{20}{2}$
- d.  $\frac{2}{10}$

57. Which equation correctly decomposes  $\frac{5}{11}$ ?

- a.  $\frac{3}{11} + \frac{2}{11} + \frac{1}{11} = \frac{5}{11}$
- b.  $\frac{3}{5} + \frac{2}{3} + \frac{2}{3} = \frac{5}{11}$
- c.  $\frac{2}{11} + \frac{2}{11} + \frac{1}{11} = \frac{5}{11}$
- d.  $\frac{1}{4} + \frac{2}{3} + \frac{2}{4} = \frac{5}{11}$

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58. Juan decomposes  $\frac{8}{12}$  as the sum of fractions. Which is another way Juan could decompose  $\frac{8}{12}$ ?

$$\frac{3}{12} + \frac{3}{12} + \frac{2}{12}$$

a.  $\frac{1}{12} + \frac{1}{12} + \frac{2}{12}$

b.  $\frac{2}{12} + \frac{2}{12} + \frac{2}{12}$

c.  $\frac{3}{12} + \frac{3}{12} + \frac{3}{12}$

d.  $\frac{4}{12} + \frac{2}{12} + \frac{2}{12}$

59. The fraction  $\frac{6}{10}$  can be decomposed as  $\frac{4}{10} + \frac{2}{10}$ . Which is another way to decompose the fraction?

a.  $\frac{2}{10} + \frac{2}{10} + \frac{2}{10}$

b.  $\frac{4}{10} + \frac{2}{10} + \frac{1}{10}$

c.  $\frac{3}{10} + \frac{3}{10} + \frac{2}{10}$

60. Which addition sentence can be used to find the difference?

$$18\frac{10}{12} - 7\frac{6}{12}$$

a.  $18\frac{10}{12} + ? = 7\frac{6}{12}$

b.  $7\frac{6}{12} + 18\frac{10}{12} = ?$

c.  $7\frac{6}{12} + ? = 18\frac{10}{12}$

61. Sonia buys  $2\frac{1}{4}$  c of cheese. She uses  $1\frac{3}{4}$  c to make a casserole. How many cups of cheese does Sonia have left?

a.  $1\frac{1}{2}$  c

b.  $\frac{1}{2}$  c

c. 1 c

d.  $\frac{1}{4}$  c



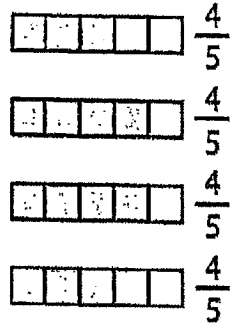
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62. Mia mows  $\frac{3}{12}$  of the yard. Martin mows  $\frac{2}{12}$  of the same yard. How much of the yard have they mowed altogether?

- a.  $\frac{5}{24}$  of the yard
- b.  $\frac{1}{2}$  of the yard
- c.  $\frac{5}{12}$  of the yard
- d.  $\frac{1}{3}$  of the yard

64. Which is the product?

$4 \times \frac{4}{5}$



- a.  $\frac{5}{16}$
- b.  $\frac{16}{5}$
- c.  $\frac{8}{5}$
- d.  $\frac{4}{5}$

63. Dean is mailing 9 packages that weigh  $\frac{2}{3}$  lb each. Which is the total weight of the packages?

- a. 6 lb
- b. 8 lb
- c. 9 lb
- d. 12 lb

65. Which is the product?

$6 \times \frac{7}{9}$

- a.  $\frac{9}{42}$
- b.  $\frac{7}{54}$
- c.  $\frac{42}{9}$
- d.  $\frac{42}{54}$

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66. Add the fractions.

$$\frac{1}{10} + \frac{38}{100} = ?$$

- a.  $\frac{39}{100}$
- b.  $\frac{78}{100}$
- c.  $\frac{48}{100}$
- d.  $\frac{40}{100}$

67. Which is the mixed number renamed as a decimal?

$$31\frac{28}{100}$$

- a. 31.30
- b. 31.28
- c. 3128
- d. 31.028

68. Which is the decimal 15.09 written in expanded form?

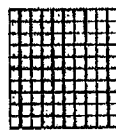
- a.  $15 + 0.09$
- b.  $10 + 5 + 0.9$
- c.  $10 + 5 + 0.09$
- d.  $1 + 5 + 0.09$

69. Compare. Choose  $<$ ,  $=$ , or  $>$ .

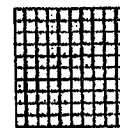
$$32.9 \quad \underline{\quad} \quad 32.09$$

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

70. Which decimal is greater?



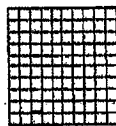
0.56



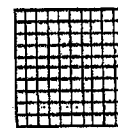
0.65

- a. 0.56
- b. 0.65

71. Which decimal is greater?



0.26



0.34

- a. 0.34
- b. 0.26

72. Which comparison is modeled by the multiplication sentence  $24 = 6 \times 4$ ?

- a. 4 is 2 times as many as 2.
- b. 6 is 3 times as many as 2.
- c. 24 is 3 times as many as 8.
- d. 24 is 6 times as many as 4.

73. Which comparison is modeled by the multiplication sentence  $18 = 6 \times 3$ ?

- a. 6 is 2 times as many as 3.
- b. 3 is 2 times as many as 6.
- c. 18 is 6 times as many as 3.
- d. 18 is 2 times as many as 9.