TEST NAME: **4th Grade Unit 5 Study Guide**
TEST ID: **29020**
GRADE: **Grade 4**
SUBJECT: **Mathematics**
TEST CATEGORY: **Common Assessments**

1. An elementary school had a school festival to raise money. The principal said $\frac{3}{10}$ of the money raised came from playing games and $\frac{52}{100}$ came from arts and crafts. The rest of the money raised came from food sales. Which expression can be used to find the fraction of the money raised from playing games and arts and crafts combined?

   A. $\frac{3}{100} + \frac{52}{100}$

   B. $\frac{30}{100} + \frac{52}{100}$

   C. $\frac{3}{100} - \frac{52}{100}$

   D. $\frac{30}{100} - \frac{52}{100}$
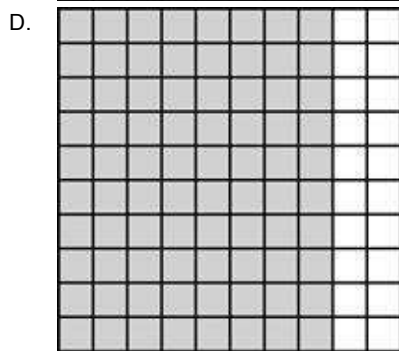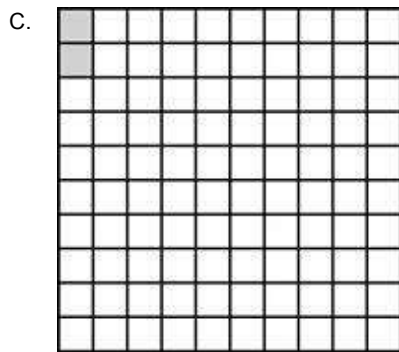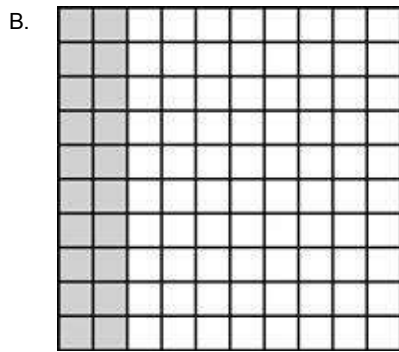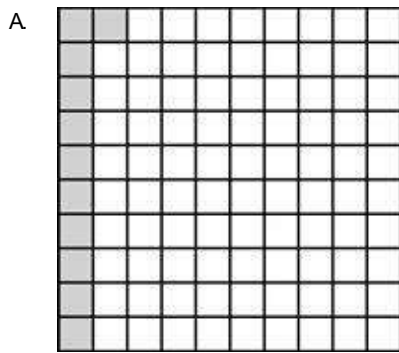
2. What is the sum?

   $\frac{45}{100} + \frac{2}{10}$

   A. $\frac{452}{100}$

   B. $\frac{245}{100}$

   C. $\frac{47}{100}$

   D. $\frac{65}{100}$

3. What is the sum?

   $\frac{7}{10} + \frac{15}{100}$

   A. $\frac{22}{100}$

   B. $\frac{85}{100}$

   C. $\frac{22}{10}$

   D. $\frac{85}{10}$

4. Which model is shaded gray to represent the expression $\frac{1}{10} + \frac{1}{100}$?

A.

B.

C.

D.

5. What is $\dfrac{66}{100} + \dfrac{2}{10}$?

A. $\dfrac{86}{200}$

B. $\dfrac{68}{110}$

C. $\dfrac{86}{100}$

D. $\dfrac{68}{10}$

6. Talia collects old coins. She has 7 old dimes and 15 old pennies. Each dime is worth $\frac{1}{10}$ of a dollar, and each penny is worth $\frac{1}{100}$ of a dollar. Which expression can be used to find the total amount of money, in dollars, Talia has in old coins?

A. $\left(\frac{7}{10} \times \frac{100}{100}\right) + \frac{15}{100}$

B. $\left(\frac{7}{10} \times \frac{10}{10}\right) + \frac{15}{100}$

C. $\frac{7}{100} + \frac{15}{100}$

D. $\frac{7}{10} + \frac{15}{10}$

7. The list below shows the fraction of students in fourth and fifth grade that joined the school choir.

- Fourth grade – $\frac{7}{10}$

- Fifth grade – $\frac{24}{100}$

Which expression has a value equal to the fraction of fourth-grade and fifth-grade students combined that joined the school choir?

A. $\frac{7}{100} + \frac{24}{100}$

B. $\frac{24}{100} - \frac{7}{100}$

C. $\frac{70}{100} - \frac{24}{100}$

D. $\frac{24}{100} + \frac{70}{100}$

8. Nathan read $\frac{40}{100}$ of a book one day. He read $\frac{3}{10}$ of the book the next day. Which expression shows the fraction of the book Nathan has read?

A. $\frac{40}{100} + \frac{3}{100}$

B. $\frac{40}{10} + \frac{3}{10}$

C. $\frac{40}{100} + \frac{30}{100}$

D. $\frac{40}{10} + \frac{3}{100}$

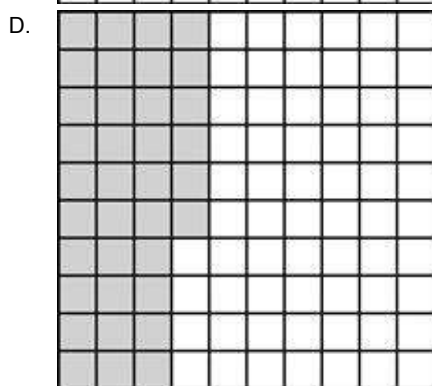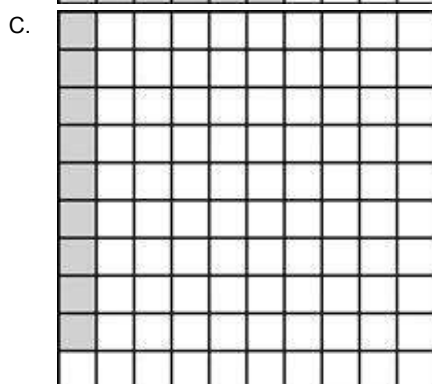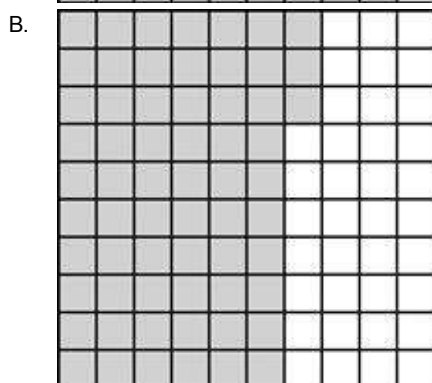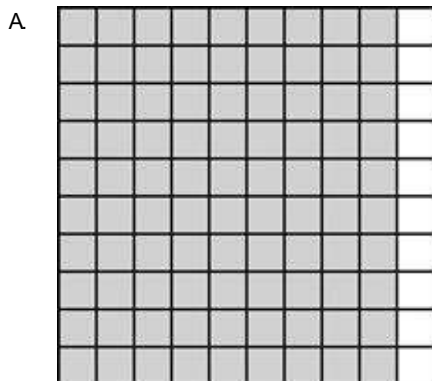9. The model below represents the sum of two fractions.

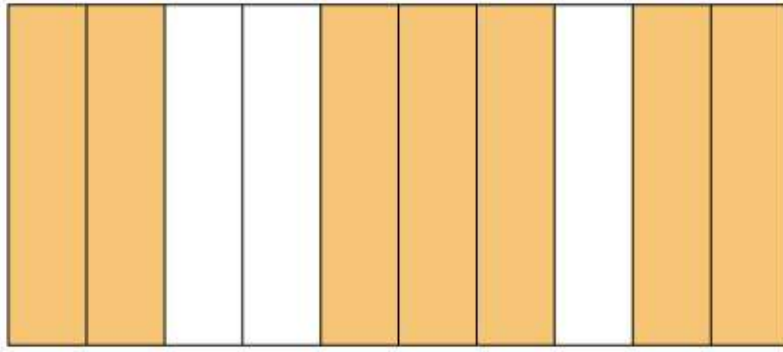Which two fractions have a sum that could be represented by this model?

A. $\frac{1}{100} + \frac{3}{10}$

B. $\frac{30}{100} + \frac{10}{10}$

C. $\frac{3}{100} + \frac{1}{10}$

D. $\frac{30}{100} + \frac{1}{10}$

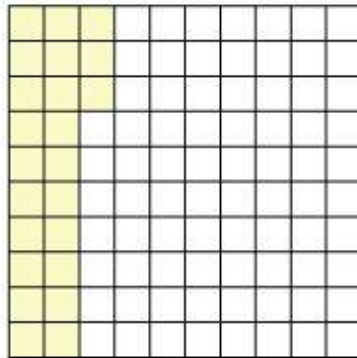10. **Which model represents the value of the expression $\frac{3}{100} + \frac{6}{10}$?**

A.

B.

C.

D.

11. The rectangle shown is $\frac{7}{10}$ shaded.

What decimal is equivalent to $\frac{7}{10}$?

   A.   7.10

   B.   0.1

   C.   0.6

   D.   0.7

12. The shaded area below shows the number of benches in a local park that need to be painted.

Which decimal represents the total number of benches in the park that do NOT require painting?

   A.   0.23

   B.   77.0

   C.   0.70

   D.   0.77

13. **Which of the following is equal to $\frac{4}{100}$?**

   A.   0.004

   B.   0.04

   C.   0.4

   D.   4.0

14. Mr. Kipling covered fifty-eight hundredths of his office floor with tiles. The shaded part of the grid shows the part of the floor covered with tiles.

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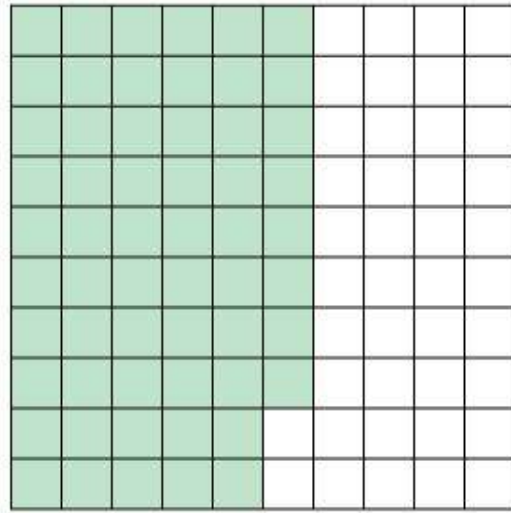
What decimal represents the part of the floor covered with tiles?

A. 58.0

B. 5.8

C. 0.58

D. 0.058

15. Mr. Terini is showing his class different ways to represent numbers. He wrote $\frac{3}{6}$ on the board.

Part A. Draw a figure that shows $\frac{3}{6}$ shaded.

Part B. Write the fraction for the shaded figure in words.

Part C. Write the decimal for the shaded part of the figure. Explain why your decimal is equal to the fraction.
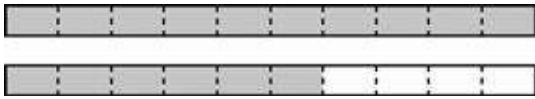
16. Dolly shaded the figure below to show 0.4 of 1 whole.
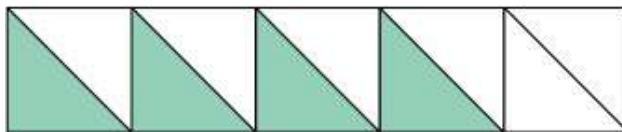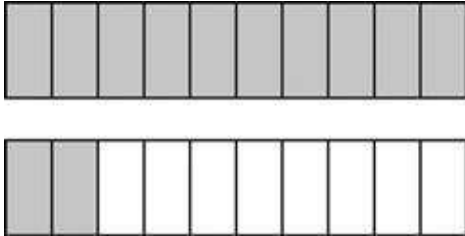

Which fraction has the same value as 0.4?

A. $\frac{10}{4}$

B. $\frac{6}{10}$

C. $\frac{4}{10}$

D. $\frac{10}{6}$

17. **If each rectangle equals one, which decimal number shows the shaded amount of these rectangles?**

A. 0.16
B. 0.6
C. 1.6
D. 16.4

18. **Which decimal tells how much of the following bars are shaded?**
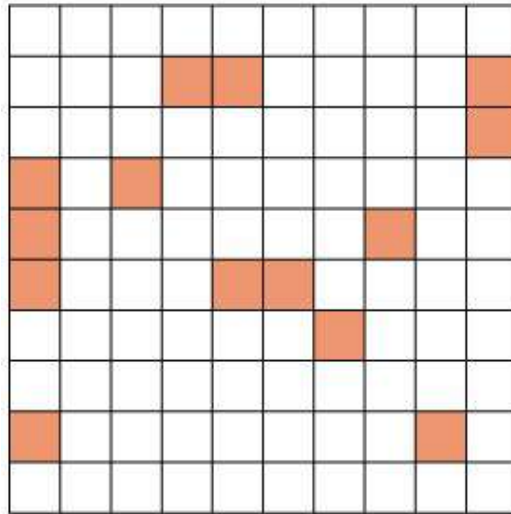
A. 0.8
B. 1.2
C. 1.8
D. 12.8

19. Which fraction is equivalent to 0.25?

A. $\frac{1}{25}$

B. $\frac{1}{5}$

C. $\frac{1}{4}$

D. $\frac{1}{2}$

20. Maurice shaded some of the small squares on this grid to model the decimal 0.14.

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What fraction of the grid is shaded?

A. $\dfrac{100}{0.14}$

B. $\dfrac{14}{10}$

C. $\dfrac{7}{25}$

D. $\dfrac{7}{50}$

21. **Eileen has \$3.00 to buy a card. Which choice is the price of a card that Eileen cannot buy?**

    A. \$2.90
    B. \$3.05
    C. \$2.85
    D. \$2.50

22. **One bookcase at the library contains all the books numbered from 971.34 to 974.61. Which of the following books belongs on this bookcase?**

    A. 970.35
    B. 971.29
    C. 973.02
    D. 975.58

23. **Liam represented the decimal number 0.28 by shading the model below.**
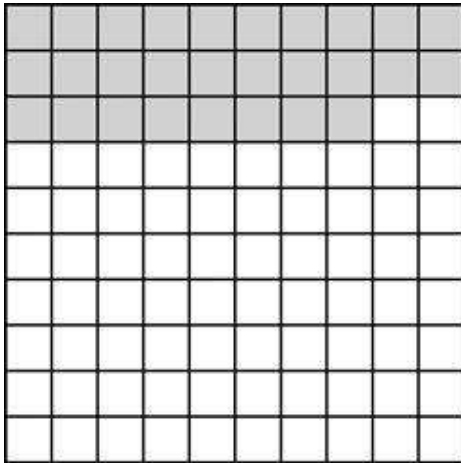
Which number sentence correctly compares 0.28 to another decimal number?

A. $0.93 < 0.28$

B. $0.28 < 0.49$

C. $0.09 > 0.28$

D. $0.28 > 0.35$

24. **The table shows the cost per 100 kilowatt hours (kWh) of electricity at four companies.**

Cost of Electricity

Energy Company	Energy Cost (per 100 kWh)
Southern California Edison	$146.76
Los Angeles Water and Power	$104.69
San Diego Gas and Electric	$153.17
Sacramento Municipal Utilities	$104.92

In how many of the companies is the cost of electricity greater than the cost at Los Angeles Water and Power?

A. 0 companies

B. 1 company

C. 2 companies

D. 3 companies

25. **Which number sentence is true?**

A. $0.02 = 0.20$

B. $0.02 > 0.20$

C. $0.02 = 0.12$

D. $0.02 < 0.12$

26. **Which number sentence is true?**

A. 0.5 = 5.0

B. 0.5 = 0.05

C. 0.5 = 0.50

D. 0.5 = 50.0

27. **Which comparison is true?**

A. $12.34 < 12.33$

B. $12.33 > 12.34$

C. $12.44 < 12.43$

D. $12.43 > 12.34$

28. **Meredith made the table to show the cost of several brands of windshield wipers.**

Cost of Windshield Wipers

Windshield Wipers Brand	Price
Easy Wipers	$18.72
Fantastic Blades	$15.92
Rain Away	$16.01
Wonder Wipers	$16.00

In the inequality, *w* represents the price, in dollars, of the windshield wipers Meredith will buy.

$w < 16$

Which brand of windshield wipers will she buy?

A. Easy Wipe

B. Fantastic Blades

C. Rain Away

D. Wonder Wipers

29. **Which expression is true?**

A. $47.6 < 46.7$

B. $46.73 > 47.84$

C. $467.38 > 46.73$

D. $467.38 < 46.73$

30. **Which expression is true?**

A. $38.24 < 38.42$

B. $38.24 > 38.44$

C. $38.42 < 38.24$

D. $38.44 > 38.44$