# BENCHMARK REVIEW

1. Paola is planting cucumbers at her farm.
   - *Each row has 26 cucumbers.
   - *She planted 52 rows of cucumbers.

How many cucumbers did Paola plant?

A. 1,342
B. 452
C. 1,352
D. 1,312

2. The number 377.72 is represented in the place-value chart shown below.

| Hundreds | Tens | Ones | Tenths | Hundredths |
|----------|------|------|--------|------------|
| 3        | 7    | 7    | 7      | 2          |

Which statement about place value is true?

A. The 7 in the tens place has a value 100 times greater than the 7 in the ones place.

B. The 7 in the ones place has a value one-tenth the value of the 7 in the tens place.

C. The 7 in the tenths place has a value 100 times the 7 in the ones place.

D. The 7 in the tenths place is one-tenth the 7 in the tens place.

3. Mrs. Dougherty is collecting Mardi Gras beads.

22 of Mrs. Dougherty's students each gave her 12 beads.

The principals gave Mrs. Dougherty 49 beads.

Which equation best represents b, the total number of beads that Mrs. Dougherty collected?

    A.   b= (22 + 12) + 49

    B.   b= 22 x 12

    C.   b= 12 + 49

    D.   b= (22 x 12) + 49

4. Mark traced the base of a rectangular prism. The actual size of the base is shown below.
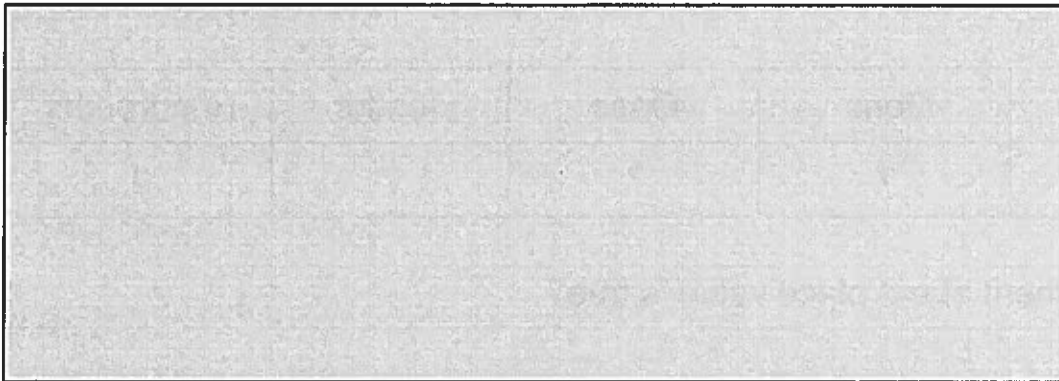
Use a ruler to measure the length and the width of this rectangle to the nearest centimeter. How much longer is the length than the width in centimeters?
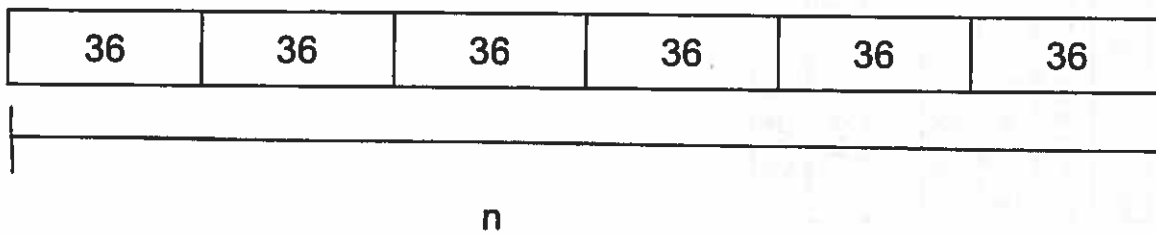
A. 5 cm

B. 14 cm

C. 7 cm

D. 9 cm

5. What is 64,593 rounded to the nearest hundred?
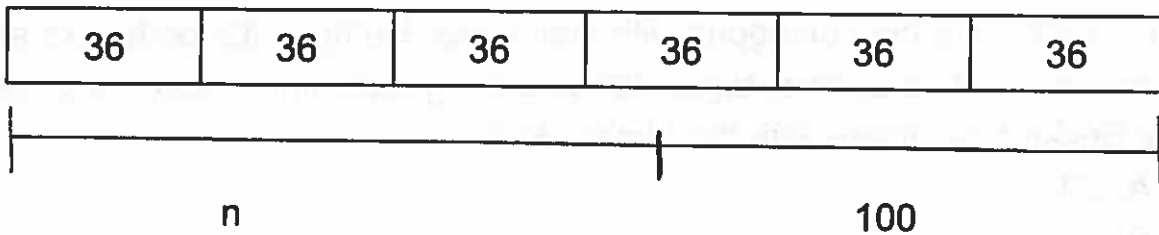
    A. 64,000
    B. 64,500
    C. 64,600
    D. 65,000

6. Calla has 6 rolls of yarn. Each roll contains 36 inches of yarn. Calla used 100 inches of ribbon for a project. Which diagram shows a way to find, n, the number of inches of yarn that Grace has left?
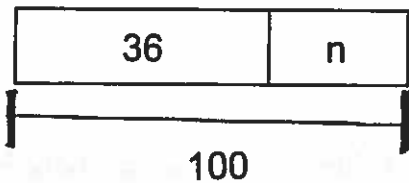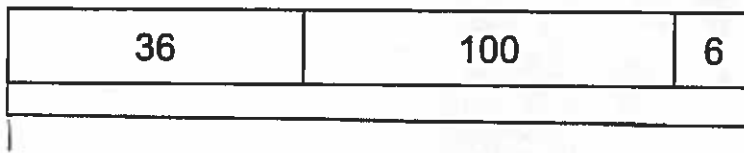
A.

| 36 | 36 | 36 | 36 | 36 | 36 |
|----|----|----|----|----|----|

n

B.

| 36 | 36 | 36 | 36 | 36 | 36 |
|----|----|----|----|----|----|

n                      100

C.

| 36 | n |
|----|---|

100

D.

| 36 | 100 | 6 |
|----|-----|---|

7. Which figure does NOT have 2 sets of parallel sides?
    A. Square
    B. Trapezoid
    C. Rhombus
    D. Parallelogram

8. The table below shows the height of two German Shepherds.

| German Shepherds | Heights (inches) |
|---|---|
| Female | 22.5 |
| Male | 26.35 |

How much taller is the male German Shepherd than the female?
Record your answer.

| ⊙ | ⊙ | ⊙ | ⊙ | . | ⊙ | ⊙ |
|---|---|---|---|---|---|---|
| ① | ① | ① | ① | | ① | ① |
| ② | ② | ② | ② | | ② | ② |
| ③ | ③ | ③ | ③ | | ③ | ③ |
| ④ | ④ | ④ | ④ | | ④ | ④ |
| ⑤ | ⑤ | ⑤ | ⑤ | | ⑤ | ⑤ |
| ⑥ | ⑥ | ⑥ | ⑥ | | ⑥ | ⑥ |
| ⑦ | ⑦ | ⑦ | ⑦ | | ⑦ | ⑦ |
| ⑧ | ⑧ | ⑧ | ⑧ | | ⑧ | ⑧ |
| ⑨ | ⑨ | ⑨ | ⑨ | | ⑨ | ⑨ |

9. Beckett is creating octagons with toothpicks. He has 482 toothpicks and needs to use 8 for each octagon. What is the greatest number of octagons that Beckett can make with the toothpicks?

    A. 59
    B. 60
    C. 61
    D. 70

10.  Adel's partner showed him three models of decimal numbers. Adel has to write the decimal numbers in order from greatest to least.



Which shows the decimal numbers listed in order from greatest to least.

    A. 0.30; 0.55; 0.72
    B. 0.55; 0.72; 0.30
    C. 0.82; 0.55; 0.20
    D. 0.72; 0.55; 0.30

11. Brian measured four sharpened pencils. The lengths are listed in the table below.

| Pencils | Length (feet) |
|---------|---------------|
| Red | $\frac{5}{10}$ |
| Blue | $\frac{3}{10}$ |
| Yellow | $\frac{8}{10}$ |
| Green | $\frac{1}{10}$ |

What is the difference between the longest and shortest pencil?
- A. $\frac{2}{10}$
- B. $\frac{5}{10}$
- C. $\frac{7}{10}$
- D. $\frac{4}{10}$

12. The length of a rectangle is 23 centimeters. The width of the rectangle is 18 centimeters. Which statement about the rectangle is true?

A. The perimeter of the rectangle is 82 centimeters because
   (2 x 23) + (2 x 18).
B. The perimeter of the rectangle is 450 because (2 + 23) x 18.
C. The perimeter of the rectangle is 45 because
   (2 + 18) + (2 + 23).
D. The perimeter of the rectangle is 41 because 23 + 18.

13. What is this numeral?
(8 x 1,000) + (4 x 10) + (5 x 1) + (9 x 0.1)

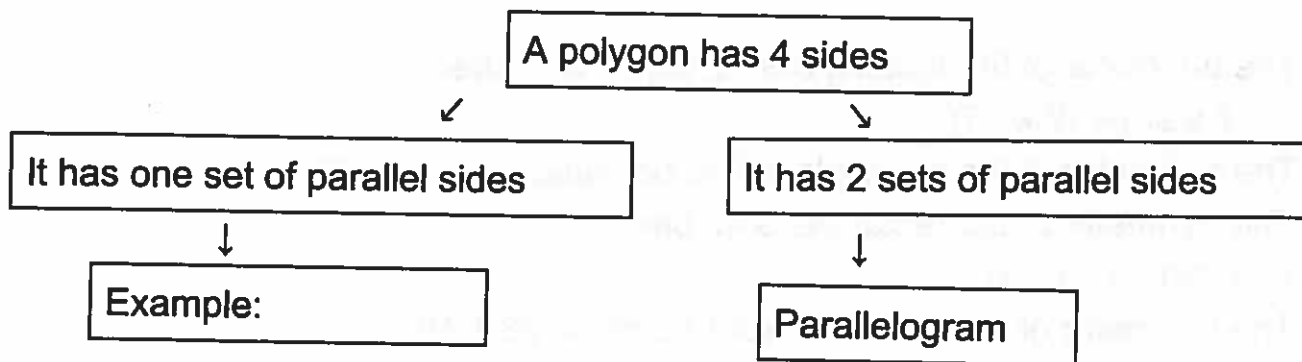- A. 845.90
- B. 845.09
- C. 8,450.9
- D. 8,045.9

14. Mia and Cali are each using rope to make bracelets. Mia used $\frac{3}{12}$ of the rope. The girls used $\frac{8}{12}$ of the rope altogether.

Mia and Cali

Mia
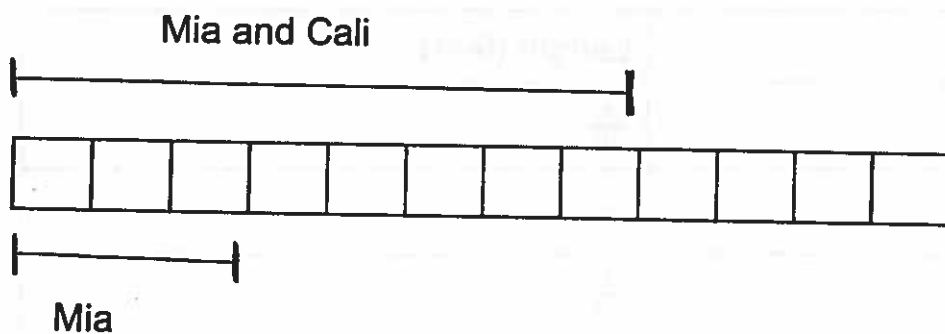
What fraction of the rope did Cali use?

A. $\frac{3}{12}$

B. $\frac{4}{12}$

C. $\frac{5}{12}$

D. $\frac{6}{12}$

15. A graphic organizer that describes a particular set of polygons is shown below.

A polygon has 4 sides

It has one set of parallel sides

It has 2 sets of parallel sides

Example:

Parallelogram

A. Triangle

B. Rhombus

C. Rectangle

D. Trapezoid

16. Lauren placed first with an 8.7 in dance. Which fraction is equivalent to this number?

A. $8\frac{1}{7}$

B. $8\frac{7}{100}$

C. $8\frac{7}{10}$

D. $\frac{87}{100}$

17. Joshua has 515 beads. He sorted the beads into 5 equal groups. He plans to use 3 of the groups. How many beads will he use?

A. 309 because 515 ÷ 5 = 103 and 103 x 3 = 309
B. 390 because 515 ÷ 5 = 130 and 130 x 3 = 390
C. 90 because 515 ÷ 5 = 30 and 30 x 3 = 90
D. 903 because 515 ÷ 5 = 301 and 301 x 3 = 903

18. Which area model best represents 32 x 17?

A.

| | 10 | 7 |
|---|---|---|
| 30 | 300 | 210 |
| 2 | 20 | 14 |

C.

| | 10 | 7 |
|---|---|---|
| 30 | 30 | 21 |
| 2 | 20 | 14 |

B.

| | 10 | 7 |
|---|---|---|
| 30 | 30 | 21 |
| 2 | 20 | 14 |

D.

| | 10 | 7 |
|---|---|---|
| 30 | 100 | 70 |
| 2 | 70 | 14 |
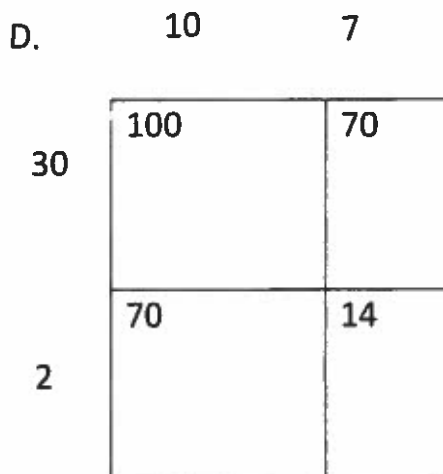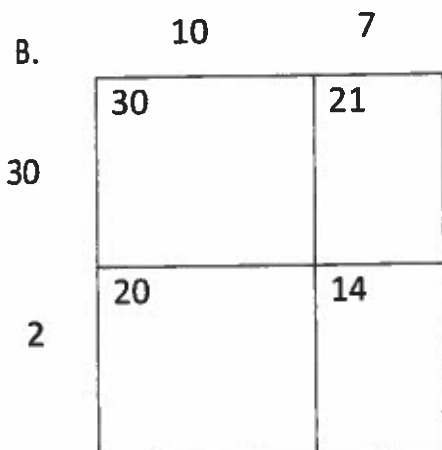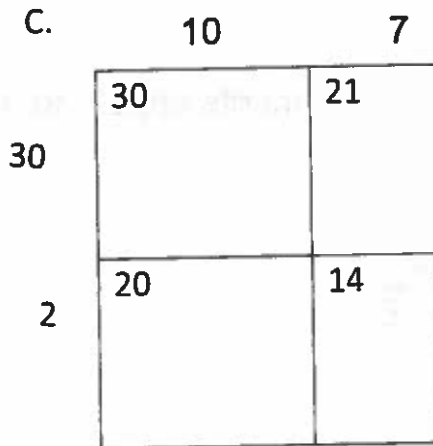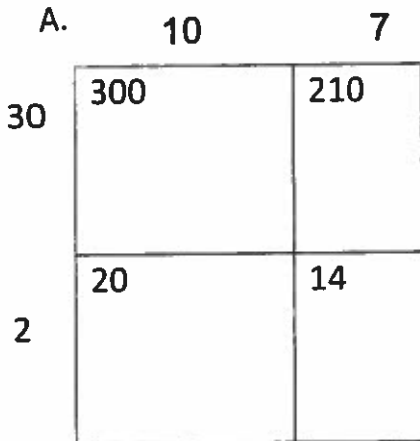
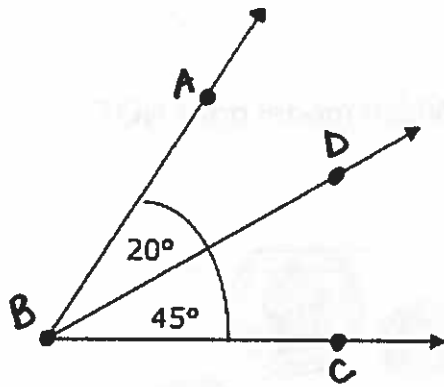19. Which number line best represents $3\frac{3}{10}$ ?

A.

B.

C.

D.

20. A figure is shown below.
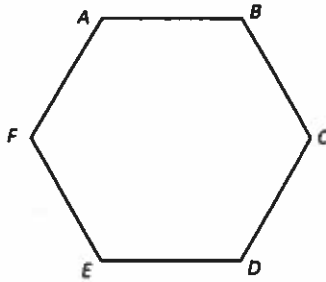


Which two line segments appear to be parallel?
A. $\overline{AB}$ ‖ $\overline{BC}$
B. $\overline{FE}$ ‖ $\overline{ED}$
C. $\overline{AB}$ ‖ $\overline{ED}$
D. $\overline{CD}$ ‖ $\overline{FE}$

21. What is the measure of angle ABC
    A. 20 degrees
    B. 60 degrees
    C. 65 degrees
    D. 70 degrees

22. Which statement about the fractions $\frac{3}{5}$ and $\frac{9}{15}$ is true?

    A. These fractions are not equivalent because 5 is not a multiple of 3.
    B. These fractions are not equivalent because 15 is not a multiple of 5.
    C. These fractions are equivalent because $\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$
    D. These fractions are equivalent because the denominators are 3 times the numerator.

23. What is the area of the rectangle below?
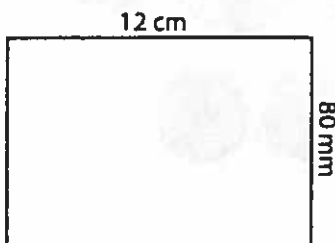


    A. 184 square mm
    B. 960 square mm
    C. 96 square mm
    D. 92 square mm

24. Carly wants to buy a sandwich that costs $2.73. Which model does NOT represent the cost of the sandwich?

A



B



C



D
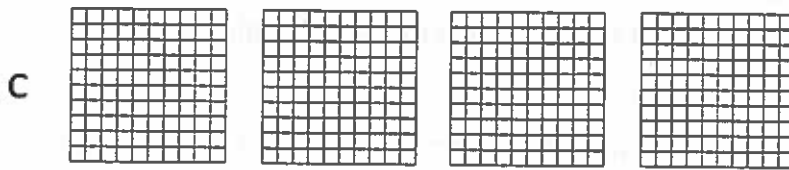
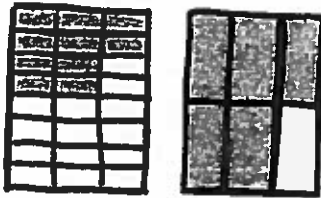25. Mrs. Zapata paid a total of $8.17 to mail three packages

- She paid $2.77 to mail the first package
- She paid $3 to mail the second package
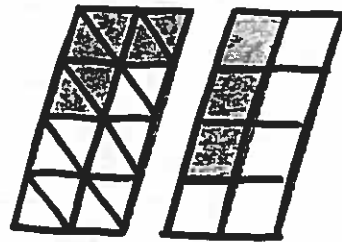
How much did Mrs. Zapata pay to mail the third package?

a. $3.60
b. $2.40
c. $6.37
d. Not here

26. Which pair of models is shaded to represent equivalent fractions?
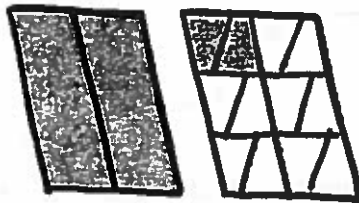
a.



c.



b.



d.



27. The table below shows the amount of money Hector earned and spent during each of four months.
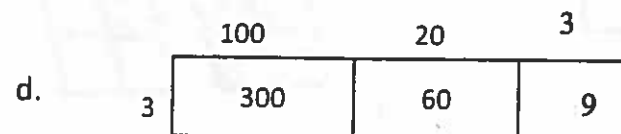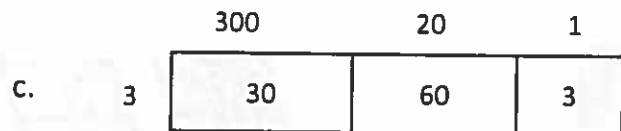
Hector's Money

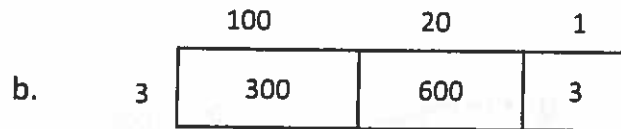| Month | Amount Earned | Amount Spent |
| --- | --- | --- |
| May | $27 | $12 |
| June | $39 | $24 |
| July | $46 | $31 |
| August | $43 | $28 |

Which of the following describes the relationship in the table?

a. Amount spent + 12 = amount earned
b. Amount spent x 2 = amount earned
c. Amount spent + 15 = amount earned
d. Amount spent - 15 = amount earned

**28.** Which area model correctly matches the following equation?

$$369 \div 3 = 123$$

a.

| | 100 | 30 | 1 |
|---|---|---|---|
| 3 | 200 | 60 | 3 |

b.

| | 100 | 20 | 1 |
|---|---|---|---|
| 3 | 300 | 600 | 3 |

c.

| | 300 | 20 | 1 |
|---|---|---|---|
| 3 | 30 | 60 | 3 |

d.

| | 100 | 20 | 3 |
|---|---|---|---|
| 3 | 300 | 60 | 9 |
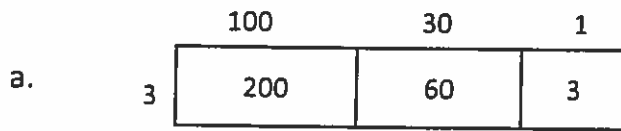
**29.** A teacher wrote several nouns, verbs, adjectives, and adverbs on the board. The table below shows the fraction of each type of word written on the board.

Words

| Type of Word | Fraction of Words on Board |
|---|---|
| Noun | $\frac{3}{7}$ |
| Verb | $\frac{3}{14}$ |
| Adjective | $\frac{1}{14}$ |
| Adverb | $\frac{2}{7}$ |

Which correctly compares two of these fractions?

a. $\frac{1}{14} > \frac{3}{7}$

b. $\frac{3}{14} < \frac{1}{14}$

c. $\frac{3}{7} > \frac{3}{14}$

d. $\frac{2}{7} < \frac{3}{14}$