

Topic 12
Test

1. Use a ruler to measure. Which is the measure of the segment to the nearest $\frac{1}{8}$ inch? (12-1)



- A 1 in.
B $1\frac{1}{8}$ in.
C $1\frac{2}{8}$ in.
D $1\frac{3}{8}$ in.

2. Which equation shows the perimeter of this rectangle? (12-3)



- A $8 \times 3 = 24 \text{ in}^2$
B $2 \times (8 + 3) = 22 \text{ in.}$
C $8 \times 4 = 32 \text{ in.}$
D $2 \times (8 \times 3) = 48 \text{ in.}$

3. Mr. Santiago wants to build a rectangular fence with the greatest area. He wants it to have a perimeter of 40 yards. Which dimensions should he use? (12-8)

- A 12 yards by 12 yards
B 15 yards by 5 yards
C 12 yards by 8 yards
D 10 yards by 10 yards

4. Which unit is most appropriate to measure the length of a house? (12-2)

- A kilometers
B meters
C centimeters
D millimeters

5. Which of the following can be used to find the area in square meters of a parallelogram whose base measures 20 meters and height measures 12 meters? (12-5)

- A $A = (2 \times 20) + (2 \times 12)$
B $A = \frac{1}{2} \times 20 \times 2$
C $A = 20 \times 12$
D $A = 20 + 12$

6. Maria glued sequins around the outside of each of her party invitations. If the invitations are 5 inches wide and 2.5 inches tall, what is the perimeter of the invitations? (12-3)

- A 7.5 in.
B 12.5 in.
C 15 in.
D 20 in.

7. Use a ruler to measure. Which is closest to the height of the treble clef shown? (12-1)



- A $\frac{1}{4}$ inch
B $\frac{3}{4}$ inch
C $\frac{5}{6}$ inch
D $\frac{7}{8}$ inch

8. The diameter of a circle is 4 feet. What is the circumference of the circle? Use 3.14 for π . (12-7)

- A 7.14 feet
B 11.14 feet
C 12.56 feet
D 25.12 feet

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9. The area of the rectangle is 120 yd^2 . Which of the following can be used to find the area of the shaded triangle? (12-6)

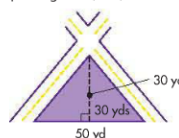


- A 120
B $\frac{1}{2} \times 120$
C $120 - 40$
D $120 - (2 \times 40)$

10. A rectangular window measures 36 inches wide by 48 inches tall. What is the area of the window? (12-4)

- A $1,728 \text{ in}^2$
B $1,488 \text{ in}^2$
C 864 in^2
D 168 in^2

11. Which shows the area of the parking lot? (12-6)

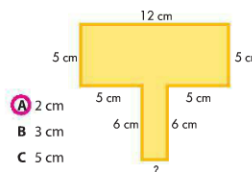


- A 750 yd
B 750 yd^2
C $1,500 \text{ yd}$
D $1,500 \text{ yd}^2$

12. Which piece of yarn has a length of 6 centimeters? (12-2)



13. What is the missing measure? (12-3)



- A 2 cm

- B 3 cm

- C 5 cm

- D 10 cm

14. Which of the following can be used to find the area of the square shown? (12-4)



- A $A = 4 \times 4$
B $A = 16 \times 16$
C $A = 4 \times 16$
D $A = 2 \times 16$

15. Which of the following best describes \overline{AB} in the circle shown? (12-7)



- A Chord
B Radius
C Diameter
D Circumference

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Purpose

- Assess students' understanding of the concepts and skills in Topic 12 using multiple-choice format.
- Additional assessment options can be found in the Teacher Resource Masters.
- For intervention materials that correspond to both tests, use the resources listed in the chart to the right.

Item Analysis for Diagnosis and Intervention

Objective	Test Items	Student Book Lessons	Intervention System
Measure to fractions of an inch.	1, 7	12-1	I22
Understand and measure with metric units.	4, 12	12-2	I23
Find perimeter with and without formulas.	2, 6, 13	12-3	I45
Find area of squares and rectangles.	10	12-4	I46
Find area of parallelograms.	5	12-5	I49
Find area of triangles.	11	12-6	I50
Connect formulas with their models.	9, 14	12-3 to 12-6	I45, I46, I49, I50
Find the circumference of a circle	8, 15	12-7	I14, I51
Draw a picture and make a list to solve a problem.	3	12-8	I48