

Area and Perimeter

3.MD.C.7: Relate area to the operations of multiplication and addition.

Read each word problem. Write an equation and draw a picture to solve.

1. Mary borrowed a rectangular mirror from her friend that is 30 centimeters long and 10 centimeters wide. Find the area of the mirror.

Picture:

Equation: _____

Answer: _____

2. My father bought a new door that is 7 feet tall and 5 feet wide. Find the perimeter of the door.

Picture:

Equation: _____

Answer: _____

3. Mrs. Harrow needs some lace to sew it around a square handkerchief that is 10 inches on each side. How much lace will Mrs. Harrow need to cover the perimeter of the handkerchief?

Picture:

Equation: _____

Answer: _____

4. Tracy received a rectangular painting on her seventh birthday. The perimeter of the painting is 36 inches, and the area is 72 square inches. What are the lengths of the sides?

Picture:

Equation: _____

Answer: _____

Area and Perimeter

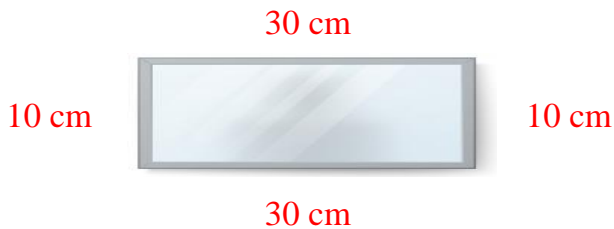
Answer Key

3.MD.C.7: Relate area to the operations of multiplication and addition.

Read each word problem. Write an equation and draw a picture to solve.

1. Mary borrowed a rectangular mirror from her friend that is 30 centimeters long and 10 centimeters wide. Find the area of the mirror.

Picture:

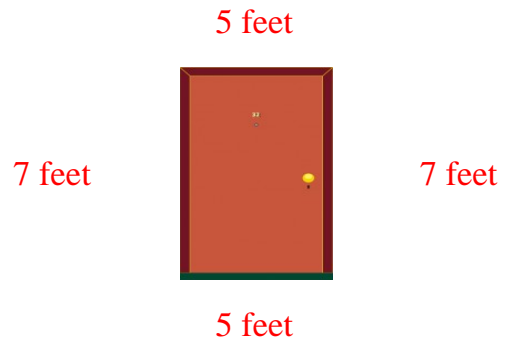


Equation: $Area = 30 \times 10$

Answer: 300 square centimeters

2. My father bought a new door that is 7 feet tall and 5 feet wide. Find the perimeter of the door.

Picture:

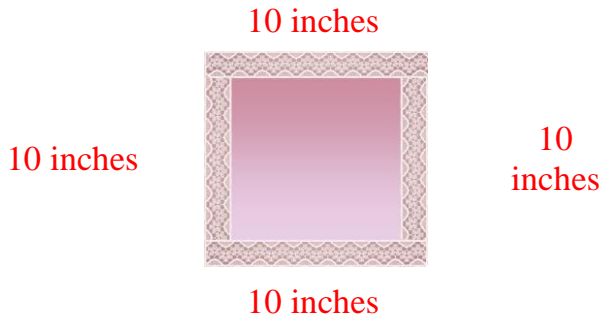


Equation: $Perimeter = 5 + 7 + 5 + 7$

Answer: 24 feet

3. Mrs. Harrow needs some lace to sew it around a square handkerchief that is 10 inches on each side. How much lace will Mrs. Harrow need to cover the perimeter of the handkerchief?

Picture:



Equation: $Perimeter = 10 + 10 + 10 + 10$

Answer: 40 inches

4. Tracy received a rectangular painting on her seventh birthday. The perimeter of the painting is 36 inches, and the area is 72 square inches. What are the lengths of the sides?

Picture:



Equation: $Perimeter = 12 + 6 + 12 + 6$
 $Area = 12 \times 6$

Answer: 12 inches and 6 inches