Du'aa for Studying & Learning

رَبِّ اشْرَحْ لِي صَدْرِي وَيَسِّرْ لِي أَمْرِي وَاحْلُلْ عُقْدَةً مِنْ لِسَانِي يَفْقَهُوا قَوْلِي

OH MY LORD! OPEN FOR ME MY CHEST (GRANT ME SELF-CONFIDENCE, CONTENTMENT, AND BOLDNESS), EASE MY TASK FOR ME, AND REMOVE THE IMPEDIMENT FROM MY SPEECH SO THEY MAY UNDERSTAND WHAT I SAY.

(SURAH TA-HA; 20:25-28)

اللّهُـمَّ لا سَـهْلَ إلاّ ما جَعَلـتَهُ سَهـلاً
وَأَنْتَ تَجْـعَلُ الْحَـزَنَ إذا شِـئْتَ سَهـلاً

OH ALLAH, THERE IS NO EASE EXCEPT IN THAT WHICH YOU HAVE MADE EASY, AND YOU MAKE THE DIFFICULTY, IF YOU WISH, EASY.

اللّهُم انّفَعنِي بِمَا عَلَّمتَنِي وَ عَلِّمنِي مَا يَنفَعنِي

OH ALLAH! MAKE USEFUL FOR ME WHAT YOU TAUGHT ME AND TEACH ME KNOWLEDGE THAT WILL BE USEFUL TO ME.

رَّبِّ زِدْنِي عِلْمًا

MY LORD! INCREASE ME IN KNOWLEDGE. [20:114]

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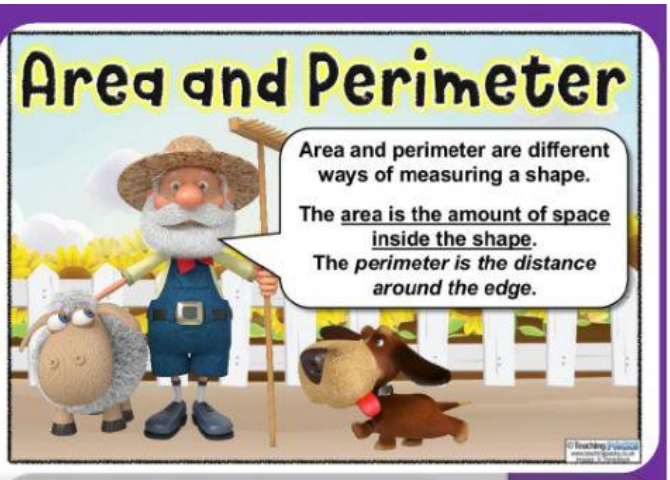
Inspiring the Love of Islam

Prepared by: Teacher Raby (2021). Year 4. Area and Perimeter. DES School.

Name:

Class:



13 Area and Perimeter

Practice 1 Area of Rectangles and Squares

1. Find the area of each figure.

(a)

Area of the rectangle

= ☐ × 6

= ☐ cm²

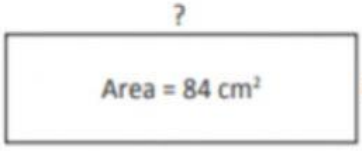
(b)

Area of the square

= 9 × ☐

= ☐ cm²

2. The area of a rectangle is 84 cm². Its breadth is 6 cm. Find its length.



Length x Breadth = Area

Length = Area ÷ ☐

= 84 ÷ ☐

= ☐ cm

The length of the rectangle is ☐ cm

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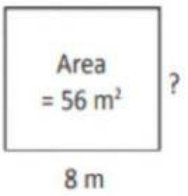
3. A rectangle has an area of 56 m^2. Its length is 8 m. Find its breadth.

Length x Breadth = Area
Breadth = Area ÷ ☐
= 56 ÷ ☐
= ☐ m

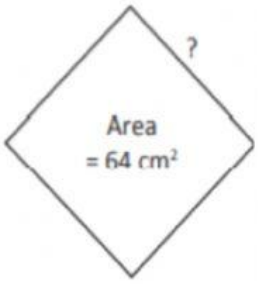
The breadth of the rectangle is ☐ m



4. The area of a square is 64 cm^2. Find the length of one side of the square. (Hint: What number multiplied by itself is equal to 64?)

64= x

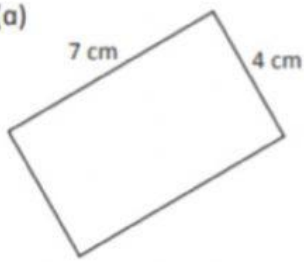
The length of one side of the square is ☐ cm



Practice 2 Perimeter of Rectangles and Squares

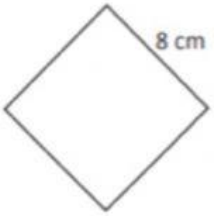
1. Find the perimeter of each figure.

(a)



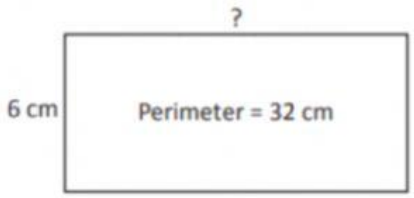
Perimeter of rectangle
= *7* + ☐ + *7* + ☐
= ☐ cm

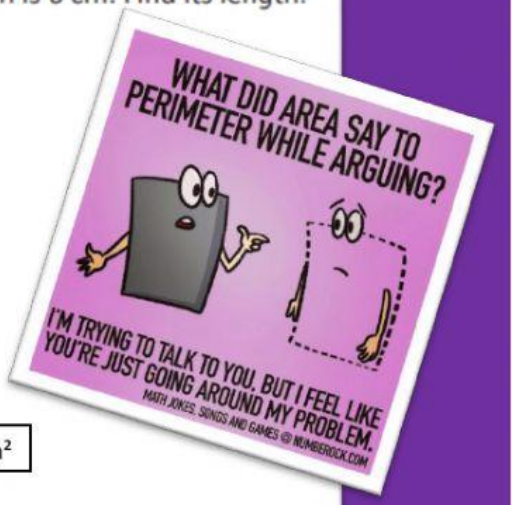
(b)



Perimeter of square = 4 × ☐
= ☐ cm

2. The perimeter of a rectangle is 32 cm. Its breadth is 6 cm. Find its length.





Perimeter = 2 (Length + Breadth)

32 = 2 (Length + 6)

$\frac{\square}{\square}$ = Length + 6

* Its length is ____ cm²

□ = Length + 6

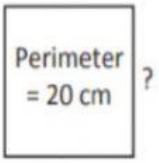
□ -6 = Length

3. The perimeter of a square is 20 cm. Find the length of one side of the square.

Length of a side = Perimeter ÷ 4

= □ ÷ 4

= ____ cm



The length of one side of the square is ____ cm

4. The area of a square garden is 100 m².

(a) Find the length of each side of the garden.
(b) Find the perimeter of the garden.

(a) 100 = ___ x ___

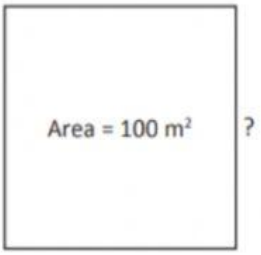
Length = ____ m

The length of each side of the garden is ____ m

(b) Perimeter = ___ x ___

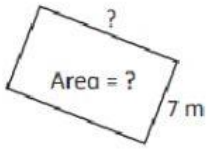
= ____ m

The perimeter of the garden is ____ m



5. The perimeter of a rectangular carpet is 38 m. Its breadth is 7 m.

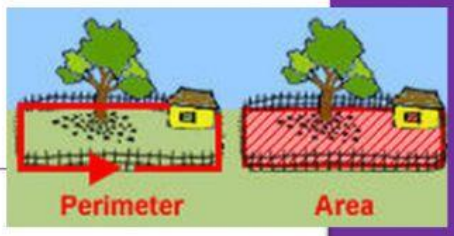
(a) Find its length.
(b) Find its area.



Answer:

a) Its length is m.

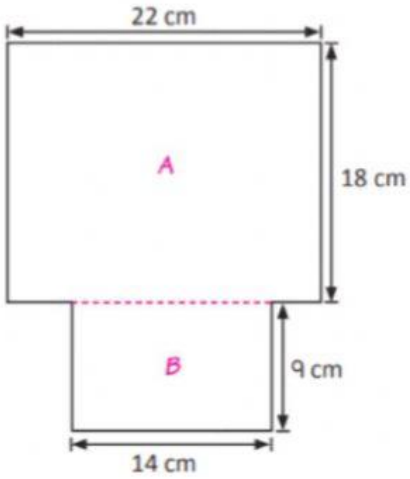
b) The area of the carpet is m^2



Practice 3 Composite Figures

1. Find the area of each figure. (All lines meet at right angles.)

(a)

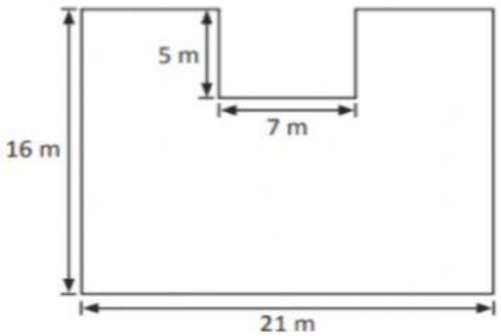


Area of A cm^2

Area of B cm^2

Area of figure cm^2

(b)

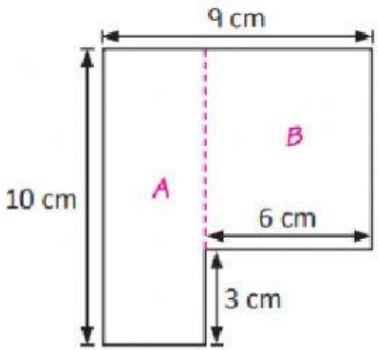


Area of big rectangle m^2

Area of small rectangle m^2

Area of figure m^2

2. Find the area of the figure. (All lines meet at right angles.)



Area of A ____ cm²

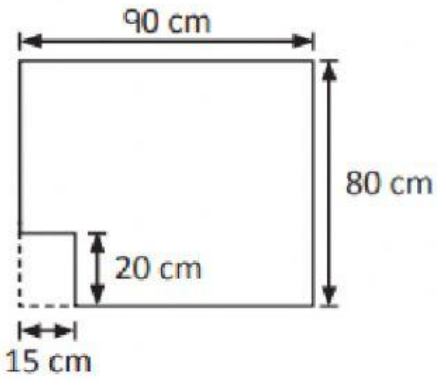
Area of B ____ cm²

Area of figure ____ cm²

Practice 4 Solving Word Problems

1. Rehana has a cardboard measuring 90 cm by 80 cm. She cuts out a small rectangular piece measuring 15 cm by 20 cm.

   (a) Find the area of the remaining cardboard.
   (b) Find the perimeter of the remaining cardboard.



(a) Area of cardboard = 90 x ____

= ____ cm²

Area of small rectangle = 15 x ____

= ____ cm²

Area of remaining cardboard

= [ ] − [ ]

= [ ] cm²

The area of the remaining cardboard is [ ] cm²

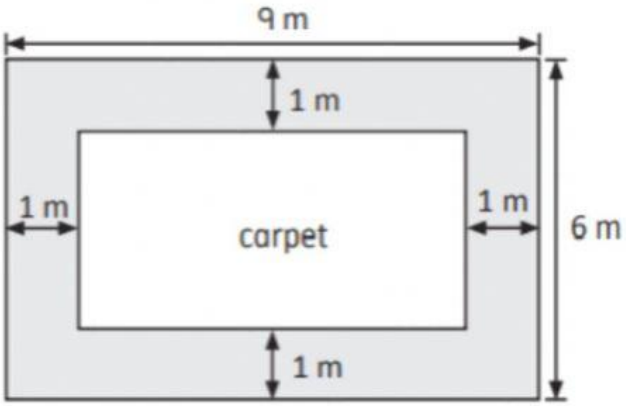
(b) Perimeter of remaining cardboard

= 90 + 80 + 75 + 20 + 15 + [ ]

= [ ] cm

The perimeter of the remaining cardboard is [ ] cm

2. A carpet is laid on a rectangular floor of length 9 m and breadth 6 m. This leaves a margin of width 1 m around the carpet. Find the area of the carpet.



Length of carpet = 9 - - [ ]

= [ ] m

Breadth of carpet = 6 - - [ ]

= [ ] m

Area of carpet = 7 x [ ]

= [ ] m²