Multiple choice section

Question 1 [6.1]

Which of the following is the same as 45 cm?

A 450 m B 4.5 km C 4.5 mm D 450 mm

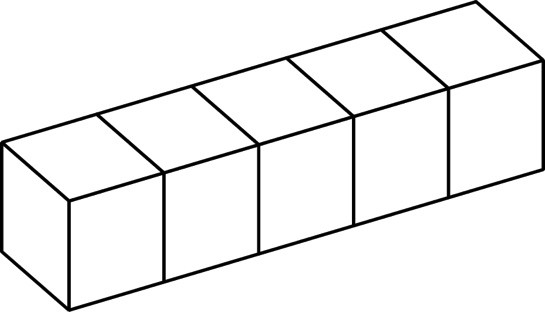
Question 2 [6.2]

The perimeter of a rectangle of length 9 m and width 11 m is:

A 20 m B 40 m C 911 m D 38 m

Question 3 [6.6]

Assuming that each cube represents 1 cm3, the volume of the following object in cm3 is:



A 22 cm3 B 11 cm3 C 4 cm3 D 5 cm3

Question 4 [6.3]

A square of area 100 m2 has side length:

A 10 m B 100 m C 50 m D 25 m

Question 5 [6.3]

Which metric unit would be most suitable for measuring the area of a computer screen?

A mm2 B cm2 C m2 D km2

Question 6 [6.3]

|  |  |
| --- | --- |
| The shape has been drawn on centimetre grid paper.  What is its area?  A 30 cm2 B 15 cm2 C 56 cm2 D 16.5cm2 | PM7_SmB_TSa6_02 |

Question 7 [6.4]

A parallelogram with a base of 17 cm, and a height of 3 cm has an area of:

A 20 cm2 B 51 cm2 C 3.2 cm2 D 26 cm2

Question 8 [6.5]

A triangle with a base of 10 cm, and a height of 6 cm has an area of:

A 30 cm2 B 60 cm2 C 10 cm2 D 16 cm2

Multiple-choice total marks: \_\_\_\_ / 8

Short answer section

Question 9 3 marks [6.1, 6.2, 6.3]

Use words from the list below to complete the following sentences.

multiply divide height length multiplying

(a) To convert from a larger unit of measurement to a smaller unit, you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(b) The area of a rectangle is calculated by multiplying the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the width.

(c) The perimeter of a square is calculated by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ its length by 4.

Question 10 3 marks [6.1]

Complete the following conversions.

(a) 23 km = \_\_\_\_\_\_\_\_\_\_ m (larger to smaller)

(b) 1009 mm = \_\_\_\_\_\_\_\_\_ cm (smaller to larger)

(c) 999 mm = \_\_\_\_\_\_\_\_\_\_ m (smaller to larger)

Question 11 1 mark [6.1]

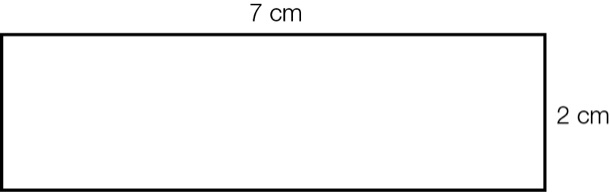
The Murray River is 2 375 000 m long. Convert this measurement to kilometres.

2 375 000 m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ km

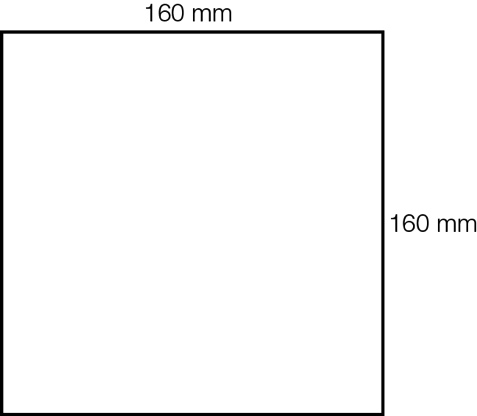
Question 12 4 marks [6.2]

Find the perimeter of the following shapes.

(a) A rectangle with a length of 7 cm and a width of 2 cm.

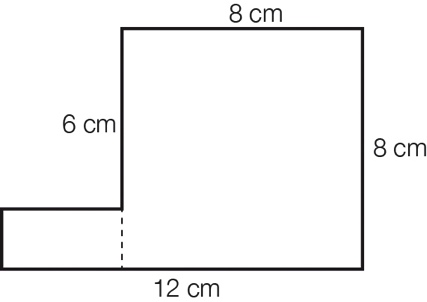


(b) A square with side lengths of 160 mm.



Question 13 2 marks [6.2]

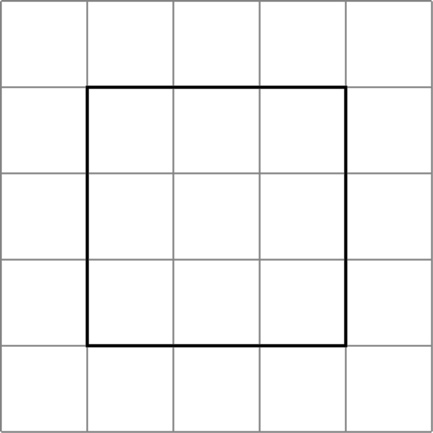
Find the perimeter of the following shape by first finding any unknown sides.



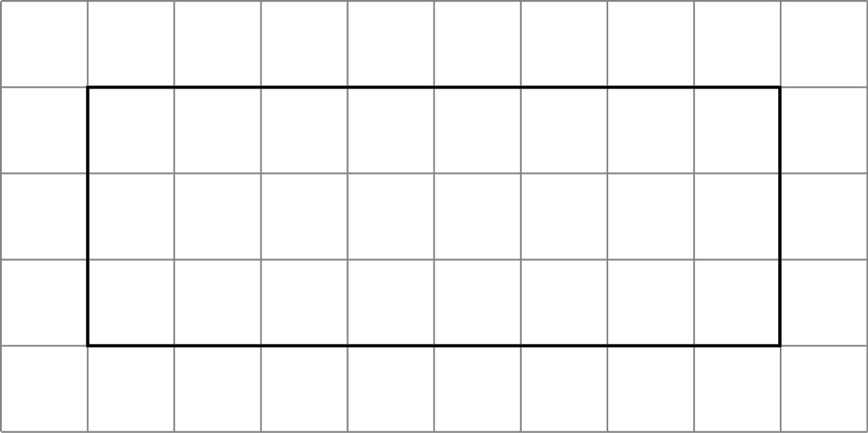
Question 14 2 marks [6.3]

Find the area of the following shapes. (Assume each square of the grid is 1 cm2.)

(a)

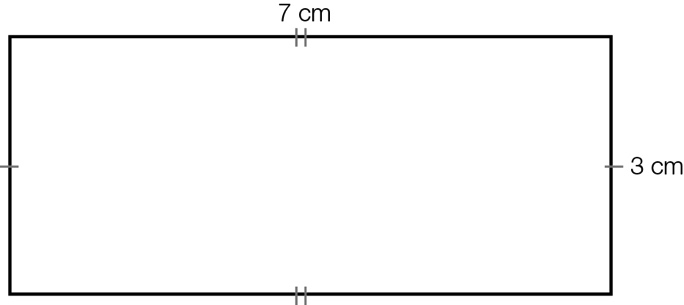


(b)



Question 15 2 marks [6.3]

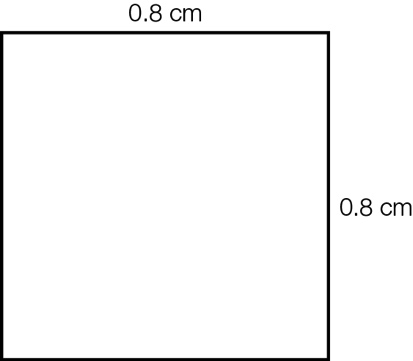
Find the area of the following rectangle using the formula area = length × width.



|  |
| --- |
| A = lw |
| =........ × ........ |
| = ............cm2 |
|  |

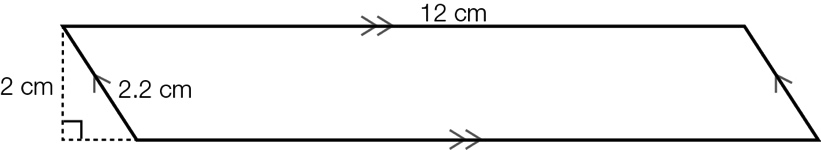
Question 16 2 marks [6.3]

Find the area of the square with side lengths of 0.8 cm.



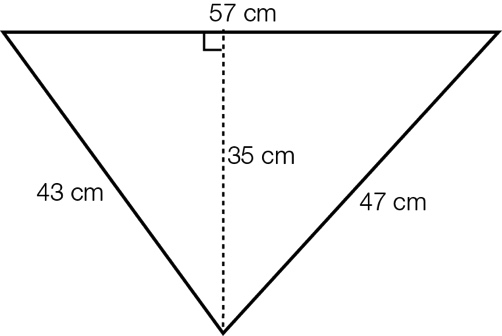
Question 17 2 marks [6.4]

Find the area of the parallelogram using the formula Area = base × height.



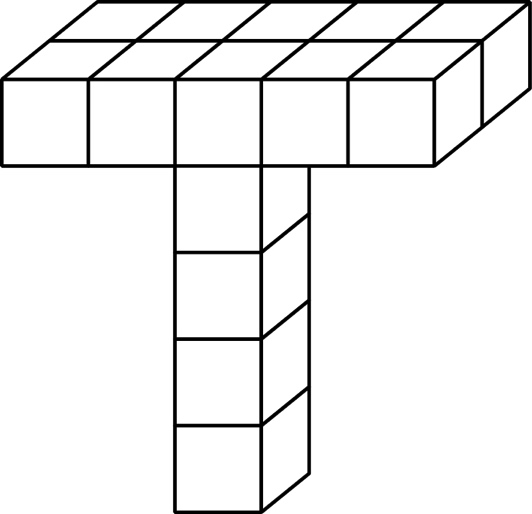
Question 18 2 marks [6.5]

Find the area of the triangle by using the formula Area = × base × height.



Question 19 1 mark [6.6]

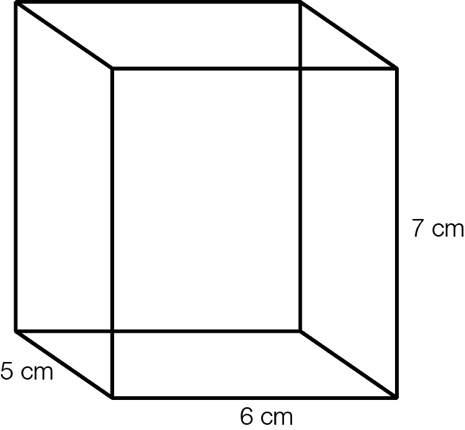
Find the volume of the following object. (Each small cube represents 1 cm3.)



Question 20 2 marks [6.6]

Find the volume of the rectangular prism by using the formula:

Volume = length × width × height



Question 21 3 marks [6.6]

A rectangular prism has a volume of 108 cm3.

If its length is 12 cm and its width is 3 cm, what is its height?

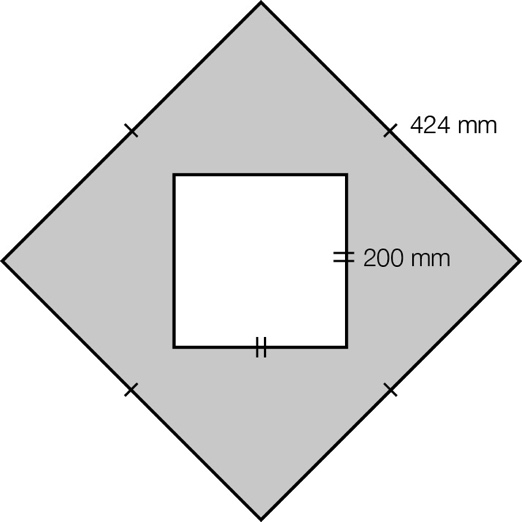
Draw a diagram.

Short answer total:\_\_\_\_\_\_\_\_\_/29

Extended answer section

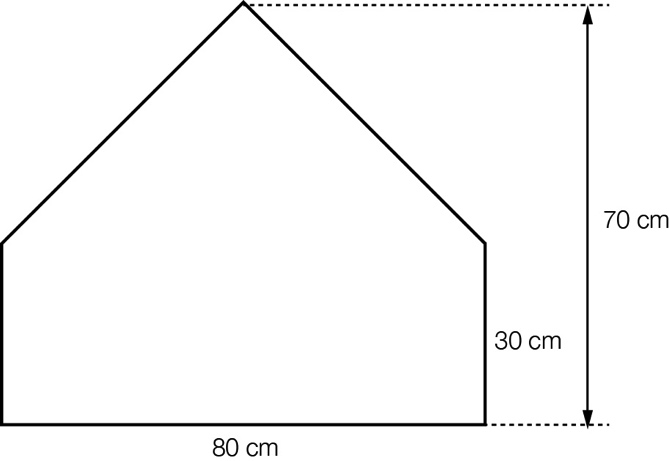
Question 22 4 marks [6.5]

Find the shaded area.



Question 23 4 marks [6.5]

Calculate the area by cutting the composite shape into a triangle and a rectangle.



Extended answer total:\_\_\_\_\_\_\_\_\_/8

TOTAL test marks: \_\_\_\_\_\_\_ / 45