Year 6 Home Learning – Maths Week 2

Arithmetic Practice – Set a 5 minute timer to complete the questions. If you have forgotten a method, let me know and I will create a short video to help you remember!

A

1. 1.45 x 3 = **4.35**
2. 7,894 – **4,036** = 3,858
3. 65 x 23 = **1,495**
4. 6 + 3 x 8 + 2 = **32**
5. $\frac{3}{5} - \frac{1}{10} = \mathbf{\frac{5}{10}} = \mathbf{\frac{1}{2}}$

B

1. 6 x 80 = **480**
2. 6218 x 3 = **18,654**
3. 19 + 27 = **46**
4. 84 x 3 = **252**
5. 981 + 34,894 = **35,875**

C

1. 183 x 100 = **18,300**
2. 569 ÷ 8 = **71r1**
3. 87 - 29 = **58**
4. 50% of 120 = **60**
5. $98 + 165$ = **263**

D

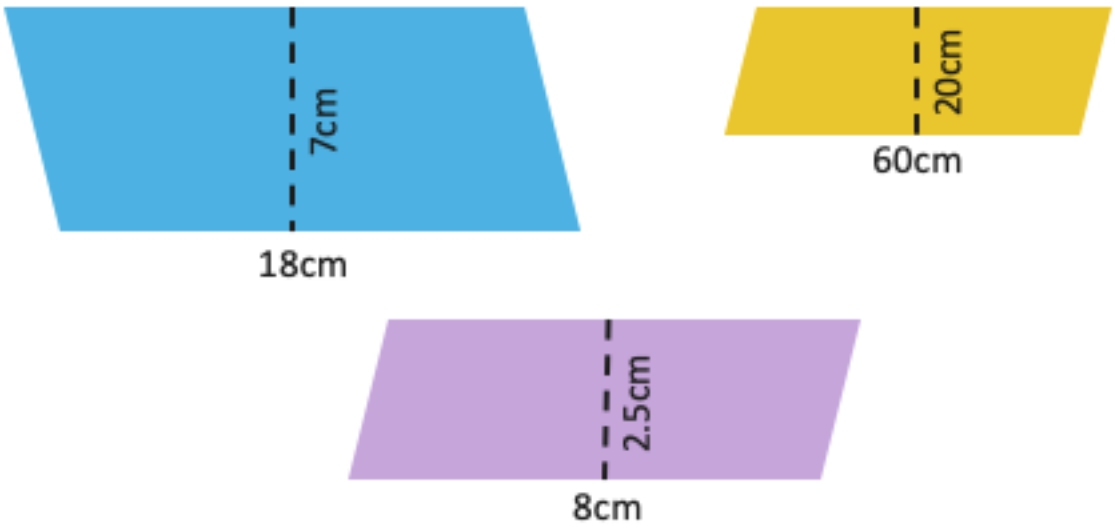
1. $675 \div 6$ = **112r3**
2. 604 - 176 = **428**
3. 76.439 + 67.842 = **144.281**
4. 65 + 19 = **84**
5. 1.8 ÷ 0.2 = **9**

E

1. 654 + 230 = **884**
2. $560 \div 8$ = **70**
3. 900 x 80 = **72,000**
4. 8^2 x 2 = **128**
5. 650 x 4 = **2,600**

Lesson 1

Area of a parallelogram = base x height

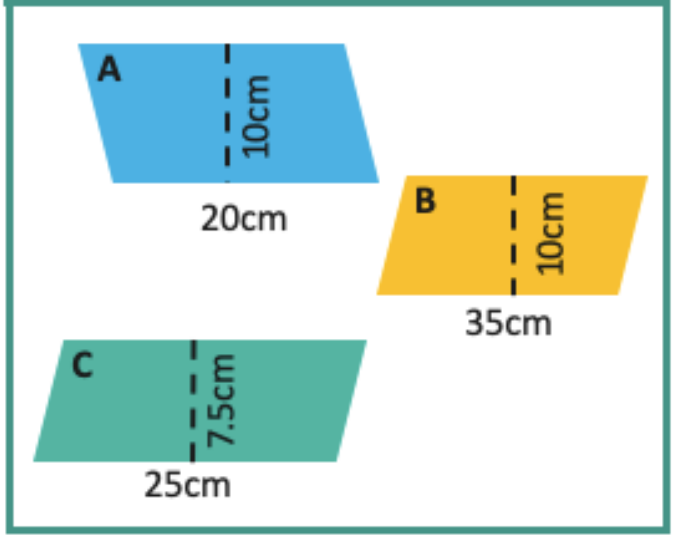


Blue = 18cm x 7cm = **126cm²**

Purple = 8cm x 2.5cm = **20cm²**

Yellow = 60 cm x 20 cm = **1200cm²**

Here are three parallelograms (not drawn to scale). Read each clue and work out which of the parallelograms is being described.



Clue	Parallelogram
This parallelogram has the greatest area.	B
This parallelogram is the only parallelogram which doesn't have a whole number area.	C
If both dimensions of this parallelogram were doubled, this parallelogram would have an area of 800cm².	A
The combined area of these 2 parallelograms is greater than 500cm², but less than 540cm².	B and C

Here is a parallelogram. You are given the height and the area. How can you work out the base of the parallelogram?

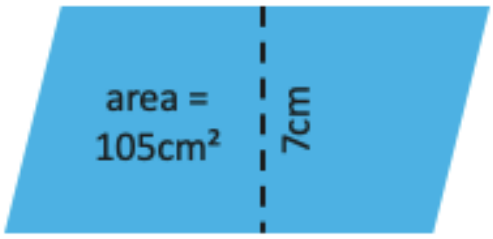
Let's put the information we know into a calculation:

$8 \times \square = 128\text{cm}^2$

$128 \div 8 = 16$

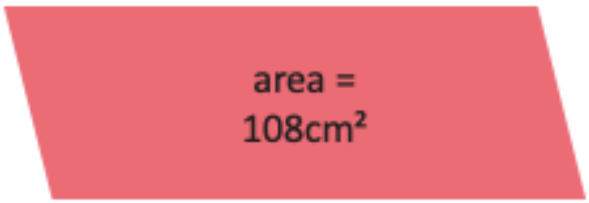
base = 16cm

Here are 2 parallelograms. Calculate the base or the height of each.



Answer:

base = 15cm

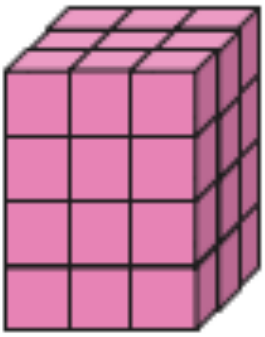


18cm

Answer:

height = 6cm

Lesson 2

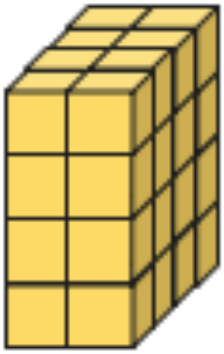


cubic centimetres

$36cm^3$

cubic metres

$48m^3$

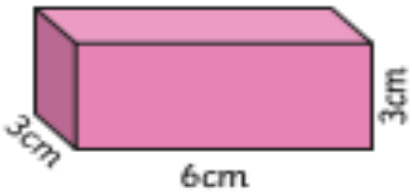


cubic centimetres

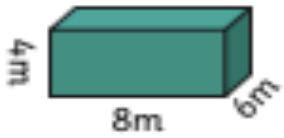
$32cm^3$

length × width × height

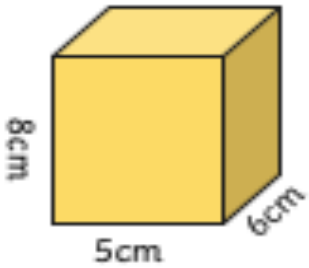
Use the formula to calculate the volume of the following shapes.



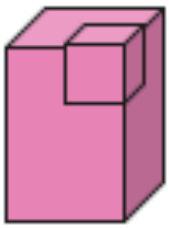
$54cm^3$



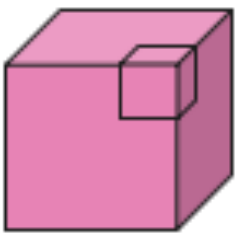
$192m^3$



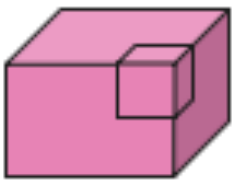
$240cm^3$



$12cm^3$



$27cm^3$



$18cm^3$