

m7 = 3 days to go!

3 Pablo is an artist.

He paints on canvas.

He uses different sizes of canvas but they all have their width and height in the ratio 4:3

(a) Which of the following canvas sizes could he use?

32 cm by 24 cm ✓

60 cm by 45 cm ✓

100 cm by 70 cm ✗

120 cm by 90 cm

Circle the correct answer(s).

Handwritten calculations for ratio 4:3:

- $32:24 \div 8 \rightarrow 4:3$
- $60:45 \div 15 \rightarrow 4:3$
- $100:70 \div 10 \rightarrow 10:7 \div 3 \rightarrow 10/3:7$
- $120:90 \div 30 \rightarrow 4:3$

(b) Write down another canvas size that he could use that is not given in the list above.

400 cm : 300 cm

12 cm : 9 cm

Answer _____ [1]

6. Work out, giving each answer in standard form.



(a)

↑ $(3 \times 10^4) \div (6 \times 10^{-3})$

no calculator $\frac{3}{6} \times \frac{10^4}{10^{-3}}$

(b)

0.5×10^7
 $(2.1 \times 10^{-5}) \div (7 \times 10^{-4})$

$\frac{2.1}{7} \times 10^{-5} \div 10^{-4}$

$0.3 \times 10^{-5} \div 10^{-4}$

0.5×10^7
 $5.0 \times 10^{-1} \times 10^7$

5.0×10^6
 (2)

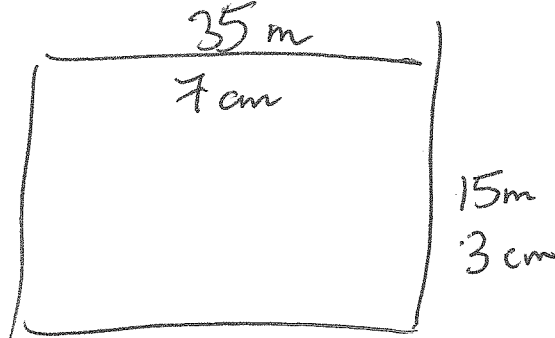
$0.3 \times 10^{-5-(-4)}$
 0.3×10^{-1}

$3.0 \times 10^{(2)} \times 10^{-1}$
 3.0×10^{-2}

8 (a) A rectangular swimming pool measures 35 m by 15 m.

Use a scale of 1 cm to represent 5 m and make an accurate drawing of the swimming pool.

1 cm represents 5 m



1 cm is 5 m

2 cm is 10 m

3 cm is 15 m

[2]

(b) Using your scale drawing find the actual length of the diagonal which goes from one corner to another.

Answer _____ [2]