SAMPEL PERCUMA

IGCSE Mathematics 0580 Past Papers ikut Topik + Skema

Set penuh: IGCSE Topical Past Papers

Mathematics 0580

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Sampel bermula di muka surat sebelah

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1 Use your calculator to find $\sqrt{\frac{45 \times 5.75}{3.1 + 1.5}}$.

2 Work out $2(3 \times 10^8 - 4 \times 10^6)$, giving your answer in standard form.

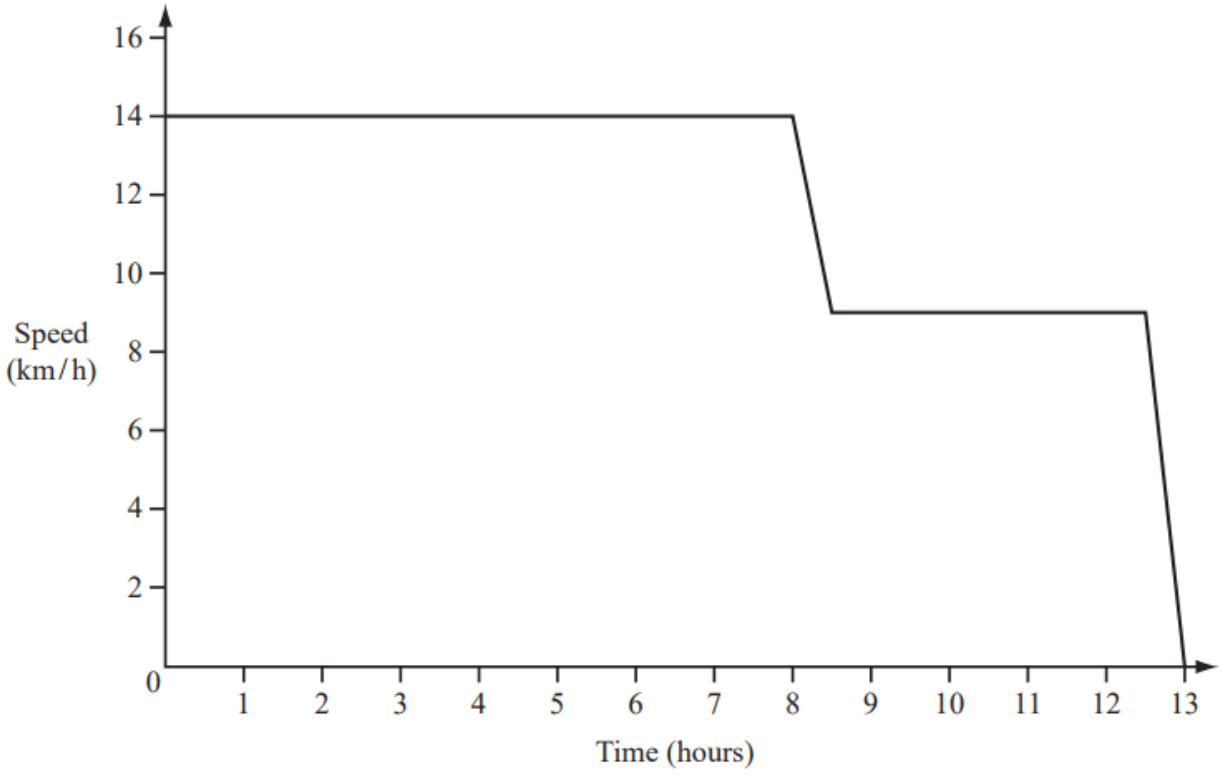
3 Write the following in order of size, **largest** first.

sin 158° cos 158° cos 38° sin 38°

15 A container ship travelled at 14 km/h for 8 hours and then slowed down to 9 km/h over a period of 30 minutes.

It travelled at this speed for another 4 hours and then slowed to a stop over 30 minutes.

The speed-time graph shows this voyage.



18 $f(x) = (x + 2)^3 - 5$ $g(x) = 2x + 10$ $h(x) = \frac{1}{x}, x \neq 0$

Find

(a) $gf(x)$,

(b) $f^{-1}(x)$,

(c) $gh(-\frac{1}{5})$.

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4 Solve the inequality.

$$3y + 7 \leqslant 2 - y$$

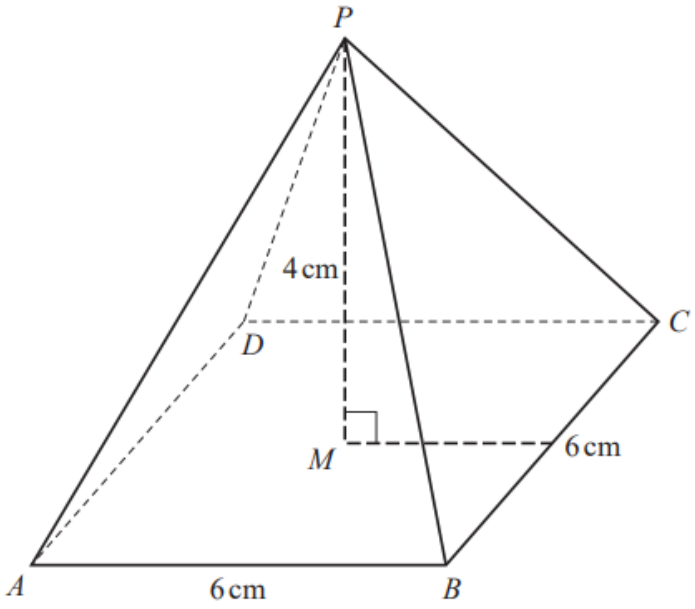
9 Make w the subject of the formula.

$$t = 2 - \frac{3w}{a}$$

10 The periodic time, T, of a pendulum varies directly as the square root of its length, l. $T = 6$ when $l = 9$.

Find T when $l = 25$.

21



The diagram shows a pyramid with a square base $ABCD$ of side 6 cm.

The height of the pyramid, PM, is 4 cm, where M is the centre of the base.

Calculate the total surface area of the pyramid.

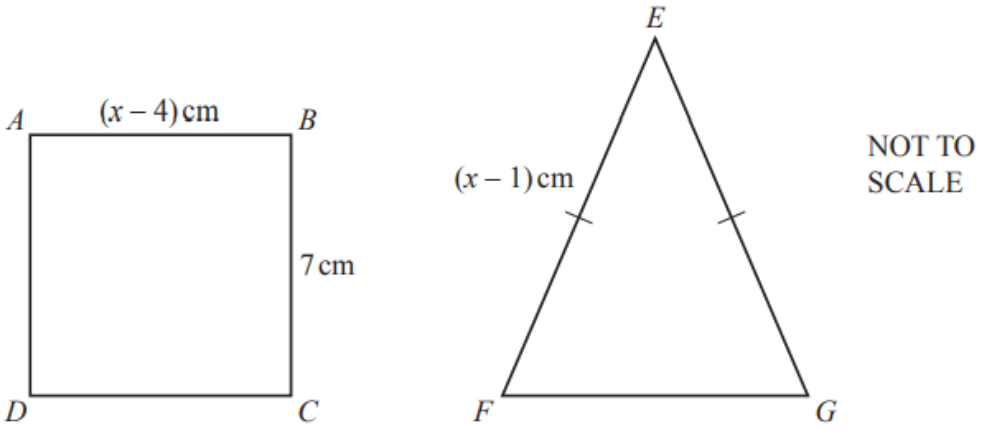
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5 A circle has a radius of 50 cm.

(a) Calculate the area of the circle in cm^2.

(b) Write your answer to **part (a)** in m^2.

13



(a) *ABCD* is a square.

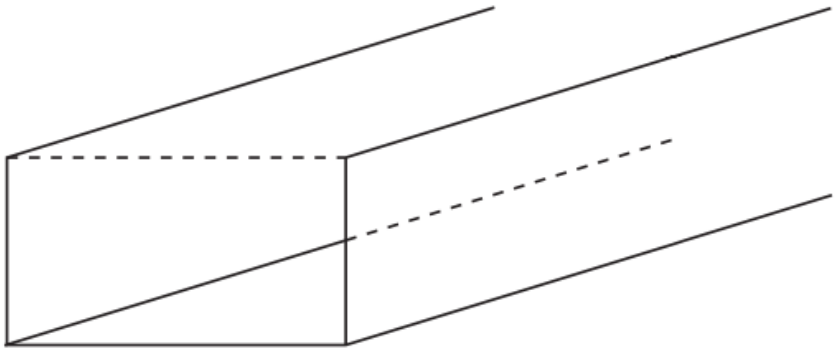
Find the value of x.

(b) Square *ABCD* and isosceles triangle *EFG* have the same perimeter.

Work out the length of *FG*.

6

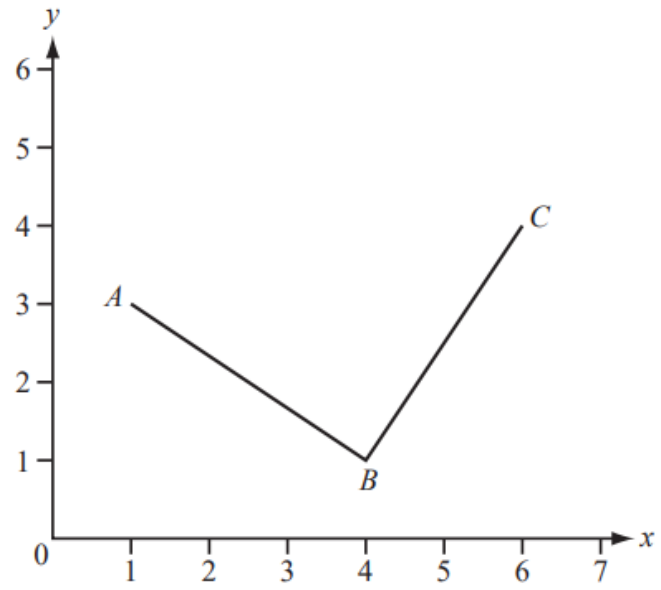
14



The diagram shows a channel for water.
The channel lies on horizontal ground.
This channel has a constant rectangular cross section with area 0.95 m^2.
The channel is full and the water flows through the channel at a rate of 4 metres/**minute**.

Calculate the number of cubic metres of water that flow along the channel in 3 **hours**.

19



$A(1, 3)$, $B(4, 1)$ and $C(6, 4)$ are shown on the diagram.

(a) **Using a straight edge and compasses only,** construct the angle bisector of angle ABC.

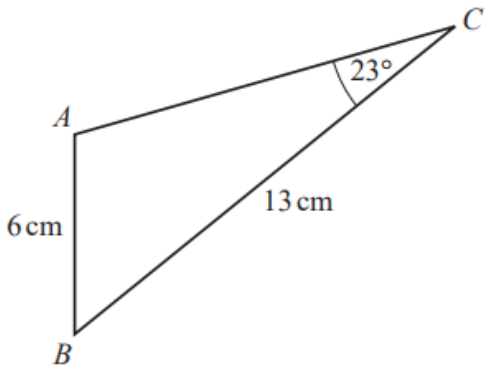
(b) Work out the equation of the line BC.

(c) ABC forms a **right-angled isosceles** triangle of area $6.5\,\text{cm}^2$.

Calculate the length of AB.

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18

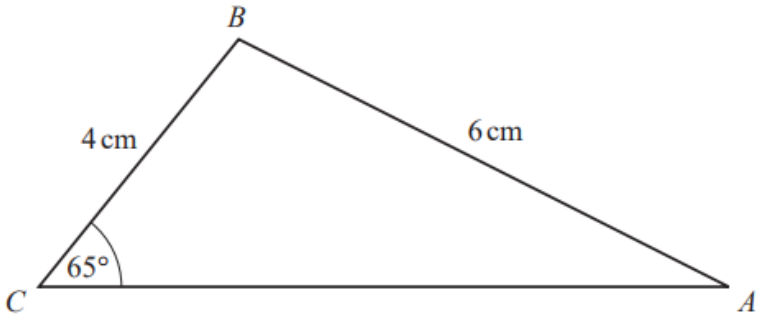


NOT TO SCALE

In triangle ABC, $AB = 6$ cm, $BC = 13$ cm and angle $ACB = 23°$.
Calculate angle BAC, which is obtuse.

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21



NOT TO SCALE

In triangle ABC, $AB = 6$ cm, $BC = 4$ cm and angle $BCA = 65°$.

Calculate

(a) angle CAB,

(b) the area of triangle ABC.

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16 In a survey of 60 cars, the type of fuel that they use is recorded in the table below.

Each car only uses one type of fuel.

Petrol	Diesel	Liquid Hydrogen	Electricity
40	12	2	6

(a) Write down the mode.

(b) Olav drew a pie chart to illustrate these figures.

Calculate the angle of the sector for Diesel.

(c) Calculate the probability that a car chosen at random uses Electricity.

Write your answer as a fraction in its simplest form.

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6 Leon scores the following marks in 5 tests.

8 4 8 y 9

His mean mark is 7.2.

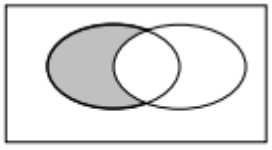
Calculate the value of y.

19	**(a)** 480 **(b)** 9900 **(c)** 0.125 or $\frac{1}{8}$

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2	$\sqrt{3}+\sqrt{6}$, π
3	Working must be shown
4	0.8^2
5	(6)€ or euros (with correct working)
6	3.322 cao
7	1.85×10^4
8	16
9	1275, 1425
10	**(a)** (0)700 or 7 am **(b)** 1700 or 5 pm

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3 (a)	
(b)	14

TAMAT SAMPEL

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