

GCSE Edexcel Math 1MA1 Using a Calculator

Answers
"We will help you to
achieve A Star"



(a) Use your calculator to work out $\frac{38.5 \times 14.2}{18.4 - 5.9}$

Write down all the figures on your calculator display. You must give your answer as a decimal.

43.736

Answer 2

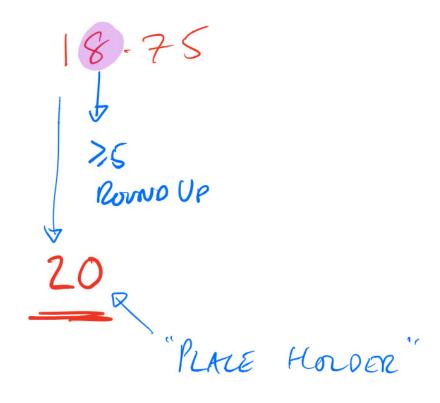
Use a calculator to work out

$$\frac{\sqrt{20.4}}{6.2 \times 0.48}$$

Write down all the figures on your calculator display. Give your answer as a decimal.

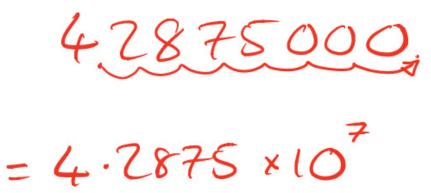


(b) Write your answer to part (a) correct to 1 significant figure.





(b) Work out the value of 350³ Give your answer in standard form.





(b) Write your answer to part (a) correct to 1 significant figure.



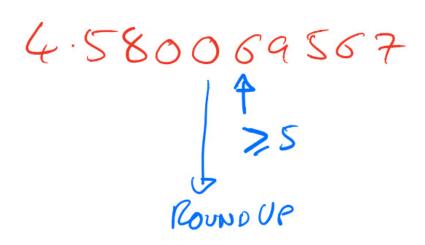
Calculate the value of
$$\sqrt{\frac{\tan 60^{\circ} + 1}{\tan 60^{\circ} - 1}}$$

Write down all the figures on your calculator display. You must give your answer as a decimal.

1.931851653



(b) Write your answer to part (a) correct to 4 decimal places.



4.5801



Use your calculator to work out $\sqrt{\frac{\sin 25^\circ + \sin 40^\circ}{\cos 25^\circ - \cos 40^\circ}}$

(a) Write down all the figures on your calculator display.

2.75603957

Answer 9

Use your calculator to work out $\frac{\sqrt{70.25}}{4.2 - 2.37}$

(a) Write down all the figures on your calculator display. You must give your answer as a decimal.

4.580069567



Use your calculator to work out $\frac{1.45^2}{3.89 - \sqrt{5.75}}$

Write down all the figures on your calculator display. You must give your answer as a decimal.





$$p^2 = \frac{x - y}{xy}$$

$$x = 8.5 \times 10^9$$
$$v = 4 \times 10^8$$

Find the value of p.

Give your answer in standard form correct to 2 significant figures.

$$P = \sqrt{\frac{x-y}{xy}}$$

$$= \sqrt{\frac{8.5 \times 10^{9} - 4 \times 10^{8}}{8.5 \times 10^{9} \times 4 \times 10^{8}}}$$

$$= 0.0000488...$$

$$= 0.000049 \quad (to 2s.f.)$$

$$= 4.9 \times 10^{-5}$$



w is increased by 10% d is increased by 5%

Lottie says,

"The value of
$$T$$
 will increase because both w and d are increased."

(b) Lottie is wrong.
Explain why.

PERCONTAGE INCREASES (THE BEST WAY!)

TO INCREASE BY, SAY, 3%.

THINK: WE WANT 103%.

HOW, 105%.

MULTIPLY BY $\frac{103}{(00)}$ (=103) 1.1

NEW $T = \frac{5.6 \times 10^{-6} \times 1.1}{(1.4 \times 10^{-4} \times 1.05)^3}$
 $= 4.4 \times 10^3$ (4400...)

NEW $T < T$ So Sate's Wrong



(b) Work out
$$\sqrt[3]{\frac{4.3 \times \tan 39^{\circ}}{23.4 - 6.06}}$$

Give your answer correct to 3 significant figures.



$$T = \sqrt{\frac{w}{d^3}}$$

$$w = 5.6 \times 10^{-5}$$

$$d = 1.4 \times 10^{-4}$$

(a) Work out the value of *T*. Give your answer in standard form correct to 3 significant figures.

$$T = \sqrt{\frac{5.6 \times 10^{-5}}{(1.4 \times 10^{-4})^3}}$$

$$= 4.517.5395...$$

$$= 4.5175... \times 10^3$$

$$= 2.52 \times 10^3$$

STANDARD FORM

ONE NON-ZERS NUMBER

BEFORE THE DELIMAL POINT

* X10?

? Is POSITIVE FOR NUMBERS > 1

? IS NEGATIVE FOR NUMBERS < 1

? IS THE NUMBER OF TIME YOU

HAVE TO MOVE THE DECIMAL POINT



(a) Find the reciprocal of 2.5

