surds

Simplify

1)
$$\sqrt{72}$$

2)
$$\sqrt{18}$$

3)
$$3\sqrt{8} + 4\sqrt{2}$$

Fractions

1)
$$\frac{1}{3} + \frac{1}{5}$$

2)
$$2\frac{3}{7} + \frac{3}{4}$$

Quick Wits

Higher 6

Venn Diagrams

$$\varepsilon = \{1,2,3,4,5,6,7,8,9\}$$
 $A = \{Multiples \ of \ 3\}$
 $A \cap B = \{3,9\}$
 $A \cup B = \{1,3,5,6,9\}$
Draw a Venn diagram to

represent this information.

Standard Form

- 1) Write 0.004 in standard form.
- 2) Express 2.54×10^5 as an ordinary number.

Change the Subject

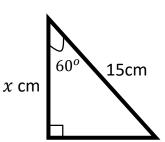
Make x the subject hx + y = yx + h

Trigonometry

Calculate the value of cos(60). Circle the correct answer.

1 0
$$\frac{\sqrt{2}}{2}$$
 $\frac{1}{2}$

Find the missing length.



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surds

Simplify

1)
$$\sqrt{72} = \sqrt{36 \times 2} = 6\sqrt{2}$$

2)
$$\sqrt{18} = \sqrt{9 \times 2} = 3\sqrt{2}$$

3)
$$3\sqrt{8} + 4\sqrt{2}$$

= $3\sqrt{4 \times 2} + 4\sqrt{2}$
= $6\sqrt{2} + 4\sqrt{2} = 10\sqrt{2}$
Fractions

1)
$$\frac{1}{3} + \frac{1}{5} = \frac{5+3}{15} = \frac{8}{15}$$

2)
$$2\frac{3}{7} + \frac{3}{4} = \frac{17}{7} + \frac{3}{4}$$

= $\frac{68 + 21}{28} = \frac{89}{28} = 3\frac{5}{28}$

Quick Wits

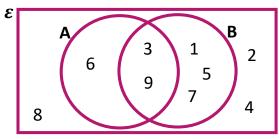
Higher 6

Venn Diagrams

$$\varepsilon = \{1,2,3,4,5,6,7,8,9\}$$

 $A = \{Multiples \ of \ 3\}$
 $A \cap B = \{3,9\}$
 $A \cup B = \{1,3,5,6,9\}$

Draw a Venn diagram to represent this information.



Standard Form

1) Write 0.004 in standard form.

$$4 \times 10^{-3}$$

2) Express 2.54×10^5 as an ordinary number. $254\ 000$

Change the Subject

Make *x* the subject

$$hx + y = yx + h$$

$$hx - yx = h - y$$

$$x(h - y) = h - y$$

$$x = \frac{h - y}{h - y} = 1$$

Trigonometry

Calculate the value of cos(60). Circle the correct answer.

$$\begin{array}{cccc}
1 & & 0 \\
& \frac{\sqrt{3}}{2} & & \boxed{\frac{1}{2}}
\end{array}$$

Find the missing length.

