



February 27th	5-a-day	Numeracy
$20 + 4 = 6 \times ?$ $24 = 6 \times 4$ Answer <u>4</u>	$100 + 20 = 200 - ?$ $120 = 200 - 80$ Answer <u>80</u>	
$5 \overset{\times}{\dots} 2 = 13 \overset{-}{\dots} 3$ $10 \qquad 10$	$12 \overset{\div}{\dots} 3 = 6 \overset{-}{\dots} 2$ $4 \qquad 4$	
Draw an acute angle 	Draw an obtuse angle 	
A telephone call is 20p for 5 minutes. How much will 20 minutes cost?	$5 \text{ minutes} = 20p$ $10 \text{ minutes} = 40p$ $20 \text{ minutes} = 80p$	
Bill is 1.35m tall. Vicky is 0.4m shorter than Bill. What is Vicky's height?	$\begin{array}{r} 1.35 \\ - 0.40 \\ \hline 0.95 \text{ m.} \end{array}$	

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<p>Expand and simplify</p> $5(y + 3) - 2(y + 3)$ $5y + 15 - 2y - 6$ $3y + 9$	<p>Expand</p> $2y(y + 3)$ $2y^2 + 6y$	
<p>Write down the sum of interior angles of a pentagon</p> 540°	<p>Write down the size of each interior angle of a regular pentagon</p> $540 \div 5 = 108^\circ$	
<p>A scale model is made of a car. The scale of the model is 1:20</p> <p>If the model car is 15cm long, how long is the car?</p> 15×20 $= 300\text{cm or } 3\text{m}$	<p>The height of the car is 1.8m. How high is the model car?</p> $180 \div 15 = 12$ 12cm	
<p>Factorise $w^2 - 5w$</p> $w(w - 5)$		
<p>Calculate the area</p> $14 + 24 + 6$ $= 44\text{cm}^2$	<p>Diagram showing a composite shape with dimensions: 2 cm (top width), 7 cm (left height), 3 cm (top width of trapezium), 6 cm (top width of trapezium), 11 cm (bottom width), and 3 cm (bottom width of trapezium). Handwritten calculations: $2 \times 7 = 14$, $6 \times 4 = 24$, and $\frac{1}{2}(3 \times 4) = 6$.</p>	

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5-a-day

Higher

Solve

$$y^2 - 49 = 0$$

$$(y-7)(y+7) = 0$$

$$y = 7 \text{ or } y = -7$$

Solve

$$y^2 + 3y - 10 = 0$$

$$(y+5)(y-2) = 0$$

$$y = -5 \text{ or } y = 2$$

Solve these simultaneous equations

$$2x + 3y = 9 \quad \times 3$$

$$3x + 2y = 1 \quad \times 2$$

$$6x + 9y = 27$$

$$6x + 4y = 2$$

$$5y = 25$$

$$y = 5$$

$$2x + 15 = 9$$

$$2x = -6$$

$$x = -3$$

$$y = 5 \quad \&$$

$$x = -3$$

Write down the value of

$$4^0 = 1$$

Simplify

$$5^{-2} \times 100^{0.5}$$

$$5^{-2} \times 100^{1/2}$$

$$\frac{1}{25} \times \sqrt{100}$$

$$\frac{1}{25} \times 10 = \frac{10}{25}$$

$$= \frac{2}{5}$$

Write 85000 in standard form

$$8.5 \times 10^4$$

Write 0.0007 in standard form

$$7 \times 10^{-4}$$

Sketch $y = \sin x$ 