

May 13th

5-a-day

Numeracy

Give an event where you think the probability is very likely.

A day in August being sunny  
Rolling a 1,2,3,4 or 5 on a dice

$$10 \square \div 2 \square \div 5 = 1$$

Put operations into the boxes to make the sum correct.

$$\sqrt{49}$$

7

$$\sqrt{x} = 8$$

64

What is the value of x?

$$\frac{3}{4} \text{ of } 24 = \underline{18}$$

$$\frac{1}{2} \text{ of } \underline{48} = 24$$

Find the value of:

$$\frac{3w + 1}{10}$$

When w = 5

$$\frac{15 + 1}{10} = \frac{16}{10} = 1.6$$

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Foundation

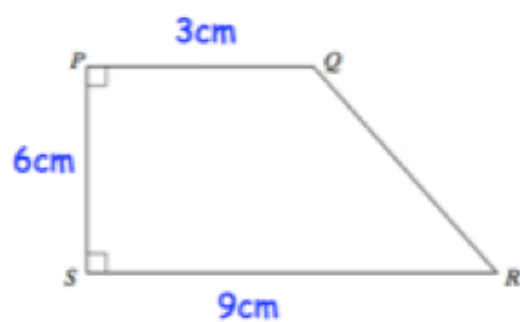
$$\frac{4}{5} \times \frac{5}{7} = \frac{4}{7}$$

\$1.50 = £1

A pairs of trousers costs £30.

Work out the cost in dollars.

$$\begin{aligned} & \pounds 30 \times 1.5 \\ & = \$ 45 \end{aligned}$$



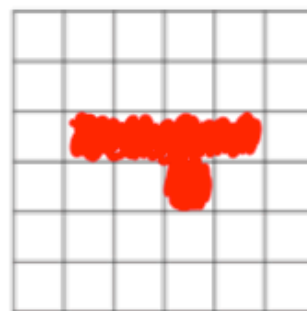
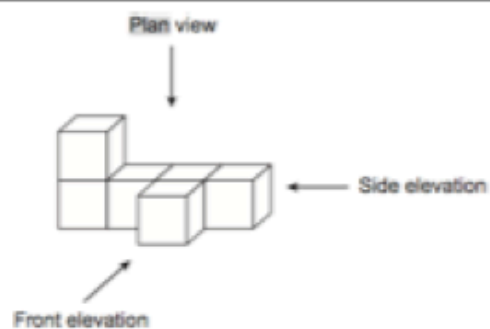
Calculate the area

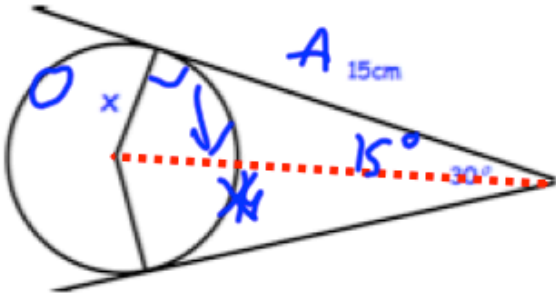
$$36\text{cm}^2$$

Calculate the size of an interior angle of a regular hexagon

$$720 \div 6$$

$$120^\circ$$



May 13	5-a-day	Higher
<p>A dice is rolled. A coin is flipped.</p> <p>What is the probability of getting a head and a 4?</p>		$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$
<p>Michael received a pay rise of 12%. He now receives £392 a week.</p> <p>What was his weekly salary?</p>		$112\% = 392$ $1\% = 3.5$ $100\% = \text{£}350$
<p>Simplify</p> $9\sqrt{35} \div 3\sqrt{5}$		$3\sqrt{7}$
 <p>The diagram shows a circle with center O and radius 15 cm. The circle is tangent to the two sides of a 30-degree angle. A dashed red line connects the vertex of the angle to the center O. The distance from the vertex to the point of tangency on the upper side is labeled x. The angle between the radius and the side of the angle is 15 degrees.</p>		<p>Calculate x</p> $x = \tan(15) \times 15$ $= 4.02 \text{ cm}$
<p>Write as a single fraction</p> $\frac{3}{x+3} - \frac{1}{2x+1}$		$\frac{3(2x+1) - (x+3)}{(x+3)(2x+1)}$ $\frac{6x+3 - x-3}{(x+3)(2x+1)}$ $\frac{5x}{(x+3)(2x+1)}$