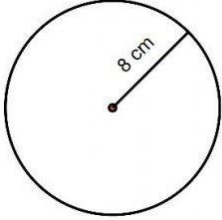
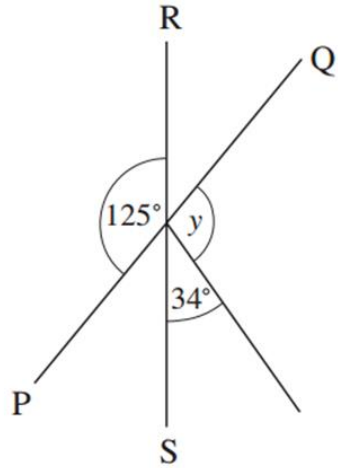


Non-Calculator Foundation + GCSE Revision

<p>Write $\frac{15}{45}$ in simplest form.</p>	<p>How many metres are in 5 kilometres?</p>	<p>Find the circumference. Give your answer in terms of π.</p>  <p>A diagram of a circle with a center point. A radius is drawn from the center to the circumference, labeled '8 cm'.</p>	<p>Simplify $x^4 \times x^8$.</p>
<p>Decrease £500 by 20%.</p>	<p>Find the value of $5^2 \times 2^3$.</p>	<p>Calculate $\frac{1}{12} \div \frac{9}{4}$.</p>	<p>List the first 5 prime numbers.</p>
<p>Calculate $\frac{2}{5} + \frac{1}{4}$.</p>	<p>Find the value of $5 + \sqrt{81} \times 4$.</p>	<p>Write 100 as a product of prime factors.</p>	<p>Solve $2x + 7 = 22$.</p>

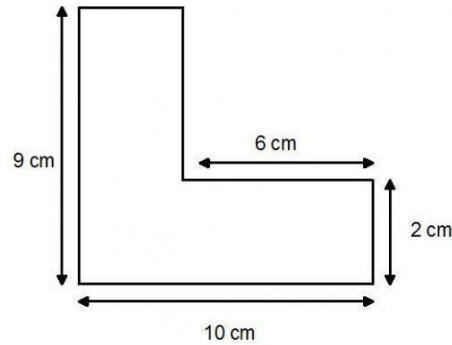
Find the value of y .



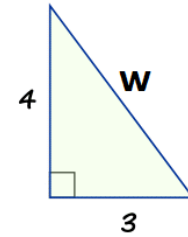
Expand $6x(2x + 3)$.

Ben and Tyrell share £55 in the ratio 2:3. How much does Tyrell get?

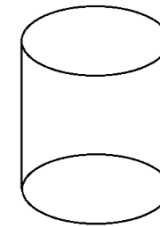
Find the area.



Find the length w .



Find the volume of a cylinder with radius 4cm and height 10cm. Give an exact answer.



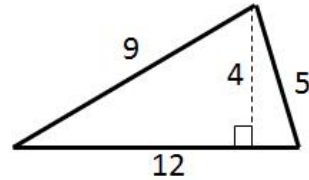
Solve
 $5x - 4 = 3x + 12$.

Work out the interior angle of a regular octagon.

Expand and simplify
 $(x + 2)(x + 5)$.

Factorise $5x^2 + 20xy$.

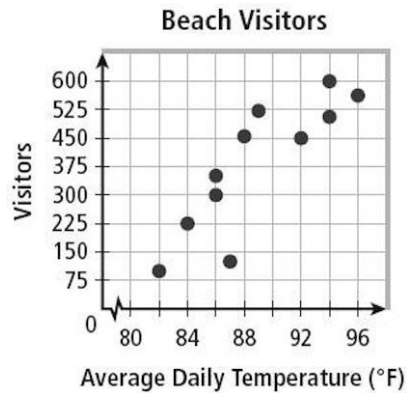
Find the area.



Lucy flips two fair coins.
What's the probability she gets two tails?

What's the gradient of the straight line with equation $y = 5 - 2x$?

What type of correlation is shown here?



If $a = 6$ and $b = 4$, find:

$$- a - b$$

$$- a + b$$

$$a + (-b)$$

$$a - (-b)$$

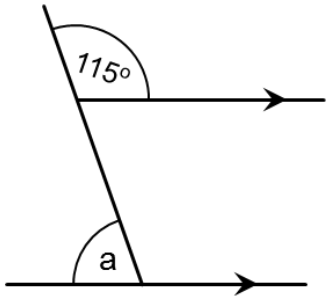
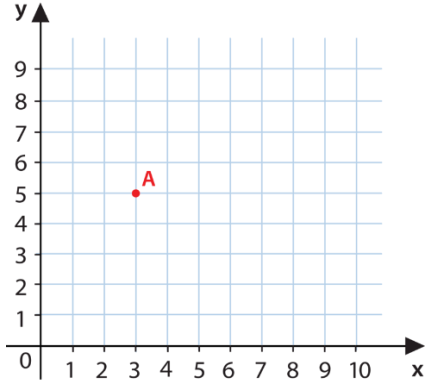
What's the lowest common multiple of 6 and 8?

I scored 24 out of 40 on a test. What's that as a percentage?

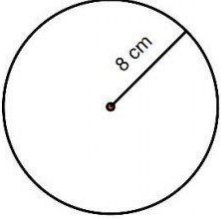
Complete the blanks:

3^3	
	9
3^1	
3^0	
	$\frac{1}{3}$

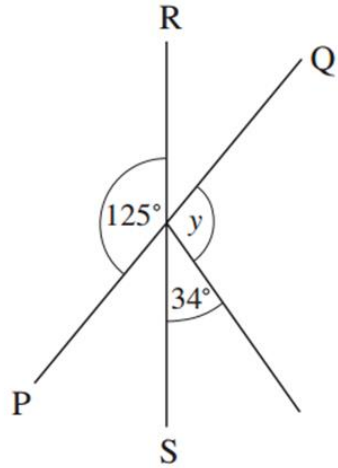
It costs £150 to buy 9 games. How much does it cost to buy 12 games?

<p>Multiply 2×10^5 by 7×10^8. Give your answer in standard form.</p>	<p>Find angle a and give reasons.</p> 	<p>Solve $15 < 3 + 6x$.</p>	<p>If a man walks 1.3km in 15 minutes, what is his average speed in km/h?</p>
<p>Translate the point A by $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$. Label the translated point B.</p>  <p>What are the coordinates of B?</p>	<p>Factorise $x^2 + 9x + 8$.</p>	<p>Name each type of sequence:</p> <p>a) 1, 1, 2, 3, 5, 8, ...</p> <p>b) 3, 7, 11, 15, 19, ...</p> <p>c) 1, 2, 4, 8, 16, 32, ...</p>	<p>Find the length of the edge of a cube which has surface area 54cm^2.</p>
			<p>Solve $x^2 + 6x = 0$.</p>

Non-Calculator Foundation + GCSE Revision - ANSWERS

<p>Write $\frac{15}{45}$ in simplest form.</p> <p>$\frac{1}{3}$</p>	<p>How many metres are in 5 kilometres?</p> <p>5000m</p>	<p>Find the circumference. Give your answer in terms of π.</p>  <p>16π</p>	<p>Simplify $x^4 \times x^8$.</p> <p>x^{12}</p>
<p>Decrease £500 by 20%.</p> <p>£400</p>	<p>Find the value of $5^2 \times 2^3$.</p> <p>$25 \times 8 = 200$</p>	<p>Calculate $\frac{1}{12} \div \frac{9}{4}$.</p> <p>$\frac{1}{12} \times \frac{4}{9} = \frac{1}{27}$</p>	<p>List the first 5 prime numbers.</p> <p>2, 3, 5, 7, 11</p>
<p>Calculate $\frac{2}{5} + \frac{1}{4}$.</p> <p>$\frac{8}{20} + \frac{5}{20} = \frac{13}{20}$</p>	<p>Find the value of $5 + \sqrt{81} \times 4$.</p> <p>$5 + 9 \times 4 = 41$</p>	<p>Write 100 as a product of prime factors in index form.</p> <p>$100 = 2^2 \times 5^2$</p>	<p>Solve $2x + 7 = 22$.</p> <p>$x = 7.5$</p>

Find the value of y .



$$y = 91$$

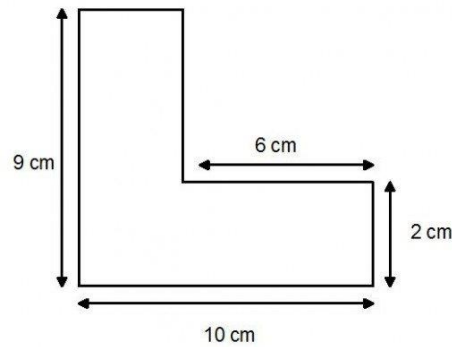
Expand $6x(2x + 3)$.

$$12x^2 + 18x$$

Ben and Tyrell share £55 in the ratio 2:3. How much does Tyrell get?

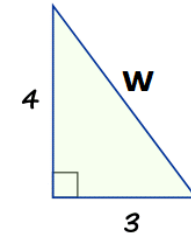
$$£33$$

Find the area.



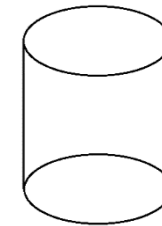
$$48\text{cm}^2$$

Find the length w .



$$w = 5$$

Find the volume of a cylinder with radius 4cm and height 10cm. Give an exact answer.



$$160\pi \text{ cm}^2$$

Solve $5x - 4 = 3x + 12$.

$$x = 8$$

Work out the interior angle of a regular octagon.

$$135^\circ$$

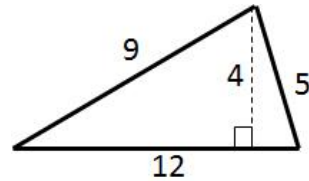
Expand and simplify $(x + 2)(x + 5)$.

$$x^2 + 7x + 10$$

Factorise $5x^2 + 20xy$.

$$5x(x + 4y)$$

Find the area.



$$24$$

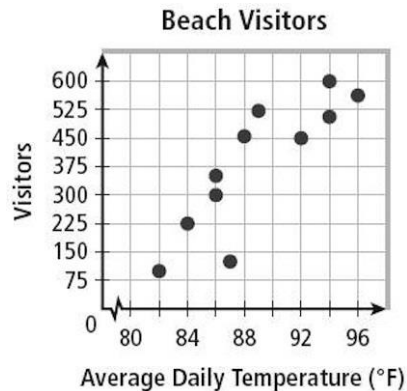
Lucy flips two fair coins.
What's the probability she gets two tails?

$$\frac{1}{4}$$

What's the gradient of the straight line with equation $y = 5 - 2x$?

$$-2$$

What type of correlation is shown here?



Positive

If $a = 6$ and $b = 4$, find:

$$-a - b = -10$$

$$-a + b = -2$$

$$a + (-b) = 2$$

$$a - (-b) = 10$$

What's the lowest common multiple of 6 and 8?

$$24$$

I scored 24 out of 40 on a test. What's that as a percentage?

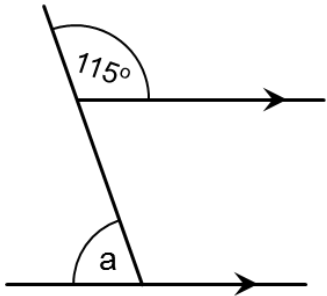
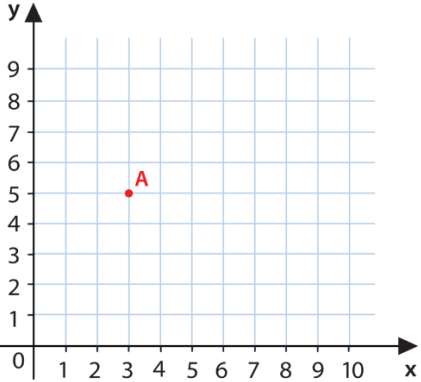
$$\frac{24}{40} = \frac{6}{10} = 60\%$$

Complete the blanks:

3^3	27
3^2	9
3^1	3
3^0	1
3^{-1}	$\frac{1}{3}$

It costs £150 to buy 9 games. How much does it cost to buy 12 games?

$$£200$$

<p>Multiply 2×10^5 by 7×10^8. Give your answer in standard form.</p> <p>1.4×10^{14}</p>	<p>Find angle a and give reasons.</p>  <p>65°</p> <p>(angles on a straight line and alternate angles oe)</p>	<p>Solve $15 < 3 + 6x$.</p> <p>$x > 2$</p>	<p>If a man walks 1.3km in 15 minutes, what is his average speed in km/h?</p> <p>$1.3 \times 4 = 5.2\text{km/h}$</p>
<p>Translate the point A by $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$. Label the translated point B.</p>  <p>What are the coordinates of B? $(6, 3)$</p>	<p>Factorise $x^2 + 9x + 8$</p> <p>$(x + 8)(x + 1)$</p>	<p>Name each type of sequence:</p> <p>a) 1, 1, 2, 3, 5, 8, ... Fibonacci</p> <p>b) 3, 7, 11, 15, 19, ... Arithmetic</p> <p>c) 1, 2, 4, 8, 16, 32, ... Geometric</p>	<p>Find the length of the edge of a cube which has surface area 54cm^2.</p> <p>3cm</p>
			<p>Solve $x^2 + 6x = 0$.</p> <p>$x(x + 6) = 0$</p> <p>$x = 0$ or -6</p>