

Direct and Inverse Proportion *ramp up*

ANSWERS

a x and y are in direct proportion. x doubles. What happens to y? <i>It doubles</i> doubling in direct proportion	b x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>1</td><td>5</td></tr><tr><td>y</td><td>6</td><td>?</td></tr></table> <i>30</i> direct proportion from 1	x	1	5	y	6	?	c x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>4</td><td>6</td></tr><tr><td>y</td><td>10</td><td>?</td></tr></table> <i>15</i> direct proportion, not from 1	x	4	6	y	10	?	d x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>3</td><td>?</td></tr><tr><td>y</td><td>12</td><td>20</td></tr></table> <i>5</i> finding x, not y	x	3	?	y	12	20								
x	1	5																											
y	6	?																											
x	4	6																											
y	10	?																											
x	3	?																											
y	12	20																											
e x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>2</td><td>0</td></tr><tr><td>y</td><td>7</td><td>?</td></tr></table> <i>0</i> 0 goes with 0	x	2	0	y	7	?	f Which is better value: 3 for £1.20 or 5 for £1.90? <i>5 for £1.90</i> best value from the price of one	g Are x and y in direct proportion? <table><tr><td>x</td><td>2</td><td>4</td><td>6</td></tr><tr><td>y</td><td>5</td><td>10</td><td>16</td></tr></table> <i>No</i> checking a table for direct proportion	x	2	4	6	y	5	10	16	h x and y are in inverse proportion. x doubles. What happens to y? <i>It halves</i> doubling in inverse proportion												
x	2	0																											
y	7	?																											
x	2	4	6																										
y	5	10	16																										
i x and y are in inverse proportion. Find the missing value. <table><tr><td>x</td><td>1</td><td>4</td></tr><tr><td>y</td><td>12</td><td>?</td></tr></table> <i>3</i> inverse proportion from 1	x	1	4	y	12	?	j x and y are in inverse proportion. Find the missing value. <table><tr><td>x</td><td>4</td><td>6</td></tr><tr><td>y</td><td>15</td><td>?</td></tr></table> <i>10</i> inverse: the product stays the same	x	4	6	y	15	?	k x and y are in inverse proportion. Find the missing value. <table><tr><td>x</td><td>6</td><td>?</td></tr><tr><td>y</td><td>4</td><td>3</td></tr></table> <i>8</i> inverse, finding x	x	6	?	y	4	3	l Is this direct proportion, inverse proportion or neither? <table><tr><td>x</td><td>1</td><td>2</td><td>3</td></tr><tr><td>y</td><td>12</td><td>9</td><td>6</td></tr></table> <i>Neither</i> falling, but not inverse proportion	x	1	2	3	y	12	9	6
x	1	4																											
y	12	?																											
x	4	6																											
y	15	?																											
x	6	?																											
y	4	3																											
x	1	2	3																										
y	12	9	6																										

The Maths Habit

Direct and Inverse Proportion *ramp up*

ANSWERS

a x and y are in direct proportion. x doubles. What happens to y? <i>It doubles</i> doubling in direct proportion	b x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>1</td><td>5</td></tr><tr><td>y</td><td>6</td><td>?</td></tr></table> <i>30</i> direct proportion from 1	x	1	5	y	6	?	c x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>4</td><td>6</td></tr><tr><td>y</td><td>10</td><td>?</td></tr></table> <i>15</i> direct proportion, not from 1	x	4	6	y	10	?	d x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>3</td><td>?</td></tr><tr><td>y</td><td>12</td><td>20</td></tr></table> <i>5</i> finding x, not y	x	3	?	y	12	20								
x	1	5																											
y	6	?																											
x	4	6																											
y	10	?																											
x	3	?																											
y	12	20																											
e x and y are in direct proportion. Find the missing value. <table><tr><td>x</td><td>2</td><td>0</td></tr><tr><td>y</td><td>7</td><td>?</td></tr></table> <i>0</i> 0 goes with 0	x	2	0	y	7	?	f Which is better value: 3 for £1.20 or 5 for £1.90? <i>5 for £1.90</i> best value from the price of one	g Are x and y in direct proportion? <table><tr><td>x</td><td>2</td><td>4</td><td>6</td></tr><tr><td>y</td><td>5</td><td>10</td><td>16</td></tr></table> <i>No</i> checking a table for direct proportion	x	2	4	6	y	5	10	16	h x and y are in inverse proportion. x doubles. What happens to y? <i>It halves</i> doubling in inverse proportion												
x	2	0																											
y	7	?																											
x	2	4	6																										
y	5	10	16																										
i x and y are in inverse proportion. Find the missing value. <table><tr><td>x</td><td>1</td><td>4</td></tr><tr><td>y</td><td>12</td><td>?</td></tr></table> <i>3</i> inverse proportion from 1	x	1	4	y	12	?	j x and y are in inverse proportion. Find the missing value. <table><tr><td>x</td><td>4</td><td>6</td></tr><tr><td>y</td><td>15</td><td>?</td></tr></table> <i>10</i> inverse: the product stays the same	x	4	6	y	15	?	k x and y are in inverse proportion. Find the missing value. <table><tr><td>x</td><td>6</td><td>?</td></tr><tr><td>y</td><td>4</td><td>3</td></tr></table> <i>8</i> inverse, finding x	x	6	?	y	4	3	l Is this direct proportion, inverse proportion or neither? <table><tr><td>x</td><td>1</td><td>2</td><td>3</td></tr><tr><td>y</td><td>12</td><td>9</td><td>6</td></tr></table> <i>Neither</i> falling, but not inverse proportion	x	1	2	3	y	12	9	6
x	1	4																											
y	12	?																											
x	4	6																											
y	15	?																											
x	6	?																											
y	4	3																											
x	1	2	3																										
y	12	9	6																										

The Maths Habit