

1 Ron has given values to these cubes.

$$\text{Green cube} = 6 \quad \text{Red cube} = 1$$



Use Ron's values to work out the value of each set of cubes.



$$\text{Purple triangle} = 12 \quad \text{Red square} = 5$$

Use the given facts to work out the calculations.



c) Create your own calculation that will be equal to 22



3 If $a = 10$ and $b = 6$, work out the values of the expressions.

- a) $a + b$ c) $2a$ e) $3a - 17$
 b) $a - b$ d) $2a + b$ f) $2(a - b)$

4 If $m = \frac{4}{5}$ and $k = 0.1$, work out the value of $m + 2k$



5



It does not matter what p and q are, $p + q$ and $q + p$ will always give the same answer.

Do you agree with Mo? Explain your answer.



6

$$m = 7 \quad n = 5$$

Write $>$, $<$ or $=$ to compare the expressions.

a) $2m$ 10

c) $2n + m$ $2m + n$

b) $n - 1$ 5

d) $7n$ $5m$

7

$$a = 10$$

Write the expressions in order, starting with the smallest value.

$5a$

$a + 5$

$\frac{a}{5}$

$a - 9$

8

$$a = 15$$

Write three different algebraic expressions that give a value of 40

9

Complete the table.

x	2	10	12			
$5x$				25		
$5x - 1$					34	99

