

Outcome 1 - One step/two step questions

Bronze examples

Examples...

Change the subject of the formula to f.

$$e = f + g$$

$$f + g = e$$

$$f = e - g$$

$$g = ef$$

$$ef = g$$

$$f = \frac{g}{e}$$

Common sense line!
Do the opposite!
Take away g

$$e = \frac{f}{g}$$

$$\frac{f}{g} = e$$

$$f = eg$$

Silver examples

Examples...

Change the subject of the formula to q.

$$p = 7q + r$$

$$7q + r = p$$

$$7q = p - r$$

$$p = \frac{p - r}{7}$$

Common sense line!
Multiply by 2
Take away r

Common sense line!
Divide by 7

$$p = \frac{r + q}{2}$$



$$\frac{r + q}{2} = p$$



$$r + q = 2p$$

$$q = 2p - r$$

Bronze Questions



Change the subject of the formula to the letter in the bracket...

 $l = m + n$ (m)  $p = q + r$ (r)

 $n = h - 7$ (h)  $k = 4 + l$ (l)

 $i = jk$ (k)  $a = 6b$ (b)



 $x = \frac{y}{z}$ (y)  $q = \frac{r}{3}$ (r)

 $m = \frac{1}{4}n$ (n)  $h = \frac{1}{8}f$ (f)



Silver Questions

Change the subject of the formula to the letter in the bracket...

 $t = hx + b$ (x)  $f = hm - d$ (h)

 $a = 2t - 9$ (t)  $c = \frac{v}{n} + 4$ (v)

 $p = qrs - 8$ (r)  $d = 7cy + 3$ (y)

 $g = \frac{s-3}{8}$ (s)  $c = \frac{a+e}{2}$ (e)

 $w = 9(d + 7)$ (d)  $h = 4(l - 9)$ (l)

Bronze Answers

1. $m = l - n$

2. $r = p - q$

3. $h = n + 7$

4. $l = k - 4$

5. $k = \frac{i}{j}$

6. $b = \frac{a}{6}$

7. $y = xz$

8. $r = 3q$

9. $n = 4m$

10. $f = 8h$

Silver Answers

1. $x = \frac{t-b}{h}$

2. $h = \frac{f+d}{m}$

3. $t = \frac{a+9}{2}$

4. $v = n(c-4)$

5. $r = \frac{p+8}{qs}$

6. $y = \frac{d-3}{7c}$

7. $s = 8g + 3$

8. $e = 2c - a$

9. $d = \frac{w}{9} - 7$

10. $l = \frac{h}{4} + 9$