# Answers Sheet

## Changing the Subject of the Formula

**1.**

**p = 4c -6**
p + 6 = 4c
c = p + 6 / 4

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**2.**

**d = 3e – 28**
d + 28 = 3e
e = d + 28 / 3

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**3.**

**f = 7w – 2**
f + 2 = 7w
w = f + 2/7

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**4.**

**a = 2q +5g**
a – 2q = 5g
g = a – 2q / 5

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**5.**

**j = 3e – 2**
j + 2 = 3e
e = j + 2 / 3

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**6.**

**V = 4r + 4s**
V – 4s = 4r
r = V – 4s / 4

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**7.**

**$t = i^2 + 2$**

$t - 2 = i^2$

$i = \pm\sqrt{t} - 2$

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**8.**

**$l = m + ft$**

$l - m = ft$

$f = l - m / t$

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**9.**

**$x^2 = y^2 + 6gh$**

$x^2 - y^2 = 6gh$

$6h = x^2 - y^2 / g$

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**10.**

**b =** $\sqrt{\frac{a+2}{5}}$

$b^2 = (\sqrt{\frac{a+2}{5}})^2$

$b = a + 2 / 5$

$5b = a + 2$

$a = 5b - 2$

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**11.**

**$A = 5b + 10$**

$A - 10 = 5b$

$b = A - 10 / 5$

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**12.**

**$x = 6y - 9$**

$x + 9 = 6y$

$y = x + 9 / 6$

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**13.**

**s = $\frac{1}{2}$ k + 8**

s – 8 = $\frac{1}{2}$ k

k = 2 (s – 8)

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**14.**

**o = $\frac{3}{5}$ h – 15**

o + 15 = $\frac{3}{5}$ h

5 (o + 15) = 3h

h = 5 (o + 15) / 3

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**15.**

**3g + 5b + 16 = 0**

3g + 16 = -5b

3g = -5b – 16

g = - 5b – 16 / 3

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**16.**

**x = $y^3$ – 4**

x + 4 = $y^3$

$y^3$ = x + 4

y = $\sqrt[3]{x}$ + 4

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**17.**

**z =** $\frac{4d+2}{5}$

5z = 4d + 2

5z – 2 = 4d

d = 5z – 2 / 4

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**18.**

**x = 4 (a + 7)**

x = 4a + 28

x – 28 = 4a

a = x – 28 / 4

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**19.**

**N = 7 + b / f**

Nf = 7 + b

b = Nf – 7

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**20.**

**Y** = $\sqrt{\frac{3j}{5}}$

$Y^2 = (\sqrt{\frac{3j}{5}})^2$

$Y^2 = 3j / 5$

$5Y^2 = 3j$

$j = 5Y^2 / 3$

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