

Master Maths 10 Worksheet 22

Solving Linear Equations

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Name: _____

1. Solve the following equations.

Any answers that are fractions write in their simplest form.

(a) $3x = 21$

(b) $m + 5 = -7$

(c) $\frac{a}{4} - 6 = -4$

(d) $8m + 5 = 11$

(e) $\frac{n+4}{3} = 1$

(f) $\frac{8x}{5} = 2$

(g) $\frac{4n+5}{3} = -1$

(h) $\frac{4a}{9} + 5 = -3$

(i) $\frac{3x-5}{4} + 1 = 5$

(j) $\frac{2n-5}{8} - 4 = -7$

(k) $7 - 4a = -5$

(l) $3(4x - 5) = 9$

(m) $3m + 1 = 5m - 7$

(n) $2m - 9 = 3(2m + 5)$

(o) $\frac{3}{5x} = 6$

(p) $\frac{x}{3x+1} = \frac{4}{5}$

2. Write the following statement as an equation and solve.

If seven is subtracted from three times this number and the result is multiplied by four the answer is 32.

equation

3. A 10 kg watermelon is cut into three pieces. The largest piece is 1 kg heavier than the next and 2.5 kg heavier than the smallest. What does the heaviest piece weigh?