

Mathematical Fluency
Solving Linear Equations

Q1. Solve to find the value of 'x'.

(a) $2x + 6 = 7$

(b) $3x - 5 = 10$

(c) $5x + 6 = 1$

(d) $-2x + 8 = 12$

(e) $-5x - 25 = 0$

(f) $7x + 5 = 5$

(g) $\frac{x}{2} + 3 = 5.5$

(h) $1 + \frac{x}{3} = -2$

(i) $\frac{1}{2} - \frac{x}{5} = \frac{15}{8}$

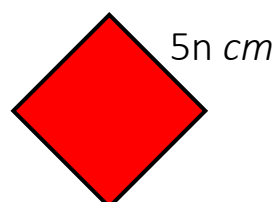
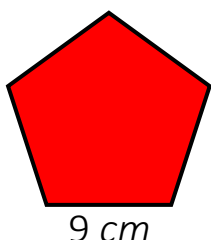
(j) $\frac{5x}{6} + 2 = 30$

(k) $2 - \frac{6x}{7} = -1$

(l) $2x + 4 = x + 1$

Q2. The mean shoe size of five girls is 7.2. Sarah is added to the data. Sarah changes the mean shoe size to 8. Can you work out what size Sarah's feet are?

Q3. Both equilateral shapes have the same perimeter. Calculate the value of 'n'.



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