

Fractions, decimals and percentages of a quantity!

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'of' means multiply in maths. An example..... Find 0.15 of £30. You can do this by multiplying 0.15 by 30. Alternatively you could think of 0.15 as a percentage (15%) or as a fraction $\frac{3}{20}$ and do it that way!

Section A – Find:

- (a) 15% of 30
- (b) $\frac{2}{3}$ of £45
- (c) 0.1 of 40
- (d) 16% of £500
- (e) 0.24 of 70
- (f) $\frac{4}{5}$ of \$80
- (g) $\frac{6}{7}$ of 21
- (h) 0.35 of £60
- (i) $\frac{1}{4}$ of 10
- (j) 0.7 of £84
- (k) $\frac{6}{5}$ of £55
- (l) 55% of £90
- (m) $\frac{7}{10}$ of 22
- (n) 0.47 of £64
- (o) 47% of \$64 (hint...see above)
- (p) $\frac{47}{100}$ of 64kg
- (q) 0.34 of £210
- (r) 104% of £200
- (s) 16% of £32
- (t) 90% of £50
- (u) Decrease £50 by 10% (hint....see above)
- (v) 54% of £700
- (w) 0.1756 of 48.2kg (round to one d.p)
- (x) 35% of 35
- (y) 0.47 of £89 (to the nearest 10 pence)
- (z) $\frac{1}{4}$ of -12

Section B – Find:

- (1) 0.14 of 0.15 (give your answer as a fraction)
- (2) $\frac{1}{5}$ of 35% of £70
- (3) 0.9 of 90% of \$100
- (4) $\frac{6}{7}$ of $\frac{1}{4}$ of £28
- (5) Increase £12 by 10% then decrease the answer by 10%.
- (6) Find 47.5% of £200
- (7) Given $\frac{9}{10}$ of a number is £36, find the number.
- (8) Given that £y was decrease by 10% to give £45. Find the value of y
- (9) A tank is $\frac{2}{3}$ full and contains 46 litres. How much can the tank hold when full?
- (10) A different tank is $\frac{3}{5}$ full and there is still room for another 24 gallons. How much can the tank hold?

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