



Mathematics Homework

Block 5

Fractions, Percentage & Decimals Level 4



SHOW ALL WORKING!

Fractions, Percentage & Decimals

- Calculate the following,
 - $36.45 + 19.6$
 - $28.36 - 11.8$
- A box containing 3 copies of a book weighs 5.85 kg. If each book weighs 1.375 kg, find the weight of the empty box.



- Find the following,
 - $(-4.28) + 6.9$
 - $(-3.6) - 5.7$
 - 200×0.9
 - $56 \div 80$
 - $(-4.8) \div 3$
 - $(-18) \div (-20)$
 - $(0.7)^2$
 - $6.4 \div 0.04$
- Round;-
 - 8.294 to two decimal places
 - 0.3867 to three decimal places
- How many significant figures are in each of the following numbers?
 - 3.80
 - 5.00010
 - 0.00800
- Round;-
 - 23600 to two significant figures
 - 0.0109630 to three significant figures
- Write each of the following percentages as fractions in their simplest form.
 - 10%
 - $33\frac{1}{3}\%$
 - 20%
 - 90%
 - 5%
- Determine the following,
 - 75% of £800
 - $66\frac{2}{3}\%$ of £336
- David scored 64 out of 80 in his science test and 37 out of 50 in his maths test. By expressing the scores as percentages, determine which of the two subjects David did better in.

Homework continues over page



10. Mr Khan bought a batch of radios for £25 each. He sold them in his shop for £45 each.
- How much profit did he make on each radio?
 - Express this profit as a percentage of what he paid for the radio.

11. Evelyn bought a pair of jeans in a sale for £28. The jeans had been reduced by 20%. What was the original price of the jeans **before** the sale?



12. Express the fraction $\frac{40}{7}$ as a mixed number.
13. Express the mixed number $3\frac{4}{5}$ as an improper (top-heavy) fraction.
14. Find the following;-
- $\frac{5}{6} - \frac{1}{3}$
 - $7\frac{2}{3} - 2\frac{1}{2}$
 - $\frac{2}{3} + \frac{3}{4} + \frac{4}{5}$
 - $5\frac{1}{3} - 1\frac{3}{4}$
15. Find the following;-
- $\frac{3}{5} \times \frac{3}{5}$
 - $\frac{1}{3} \times \frac{2}{5} \times \frac{3}{8}$
 - $\frac{5}{6} \div \frac{1}{3}$
 - $4\frac{2}{3} \div 1\frac{1}{5}$