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[Higher Physics Homework Booklet](#)

Guided practice worksheet
Name _____

4.1 Percentages of amounts

- 1 a To find 10% of an amount, divide by 10.
b To find 70% of an amount, divide by _____ and multiply by _____.
c To find 1% of an amount, divide by _____.
d To find 37% of an amount, divide by _____ and multiply by _____.
e 0.5% is half of _____.
f 2.5% is half of _____.

Look for linked questions. If you already know 10% and 5%, you can add them to find 15%.

F

2 Mentally work out

- | | | | | | |
|---|-------------|---|-------------|---|--------------|
| a | 50% of £400 | b | 25% of £400 | c | 75% of £400 |
| d | 10% of £400 | e | 20% of £400 | f | 30% of £400 |
| g | 5% of £400 | h | 15% of £400 | i | 45% of £400 |
| j | 1% of £400 | l | 2% of £400 | j | 0.5% of £400 |

F

- 3 A coat is priced at £65. Eley sees that in tomorrow's sale the price will be reduced by 10%. How much money will she save if she buys it in the sale? _____

F

4 Calculate these percentages. Show your working.

- | | | | | | |
|---|----------------|---|---------------|---|-------------------|
| a | 16% of 4800 | b | 54% of £350 | c | 92% of 750 cm |
| d | 38% of 250 | e | 22% of £500 | f | 64% of 450 cm |
| g | 0.5% of 3.5 kg | h | 2.5% of 250 g | i | 120% of 88 metres |

E

- 5 Jamie earns £126 a week for his part time job. He gets a pay rise of 1.5%. How much extra will he earn each week? _____

E

4.1

Percentages of amounts

Objectives

- Find a percentage of an amount without using a calculator F
- Find a percentage of an amount using a calculator E
- Find percentages of amounts in more complex situations D

Prior knowledge

Multiplication and division by single-digit whole numbers, and by 10 and 100

Starter

Remind students that 'per cent' means 'out of 100' and of the percentage symbol. Ask students for examples of where they might see or hear of percentages in everyday life.

Main teaching

- Discuss percentage equivalents for easy fractions.
 - What percentage is equal to $\frac{1}{2}$? ... $\frac{1}{4}$? ... $\frac{3}{4}$? ... $\frac{1}{10}$? ... $\frac{1}{100}$?
- Display Example 1 on the ActiveTeach.
 - Work through part a (non calculator) step by step.
- Move on to part b (calculator) of Example 1
 - Ensure students understand why they need to divide by 100 and then multiply by the percentage they want to find.
 - Give students the opportunity to work through the calculations themselves.
 - What do you expect to happen if the percentage you want to find is greater than 100%?

Common mistakes

Students may have difficulty with fractions of a percentage, mistakenly thinking of 1.5% as 15%, for example. They may also try to use the percentage key on their calculator, which may lead to errors.

AO2/AO3 focus

AO2: students should read the question, then think about what maths they could apply.

AO3: there is less structure than an AO2 question, so encourage analysis of the question and discuss strategies for its solution.

Plenary

A mix of easy and harder quick-fire 'percentage of a quantity' questions – half the class using a calculator, the other half working mentally. As students start to calculate, pick one from each half of the class to answer. Who answers correctly first?

Specification reference N2.7

Key words
Per cent, %

Resources
[Write resources here]

Worksheets
Guided Practice Worksheet 4.1 – more practice in finding percentages of amounts with and without a calculator

ActiveTeach resources
[Write resources here]

Links
[Write links here]

Follow up
Follow up exercise 4.1 in Foundation Sets Practice Book
And
Exercise 4.1 in G-F Practice Book



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