

## 1. CALCULATOR OK

(a) Work out 68% of 90

(b) Work out 328% of 300

## 2. CALCULATOR OK:

There are 150 parents at a sports day.

24% of the parents say they would like to do the wheelbarrow race.

Work out how many of the parents would like to do the wheelbarrow race.

## 3. CALCULATOR OK:

A washing machine costs £480

Toni gets 6% off the price of the washing machine.

Work out how much she has to pay for the washing machine.

## 4. NO calculator

(a) Work out 50% of £18.40

(b) Work out 10% of £18.40

## 5. NO calculator

(a) Work out 25% of £18.40

(b) Work out 20% of £18.40

(c) Work out 5% of £18.40

(d) Work out 1% of £34.00

## 6. NO calculator

(a) Work out 2.5% of £18.40

(b) Work out 2% of £18.40

(c) Work out 40% of £18.40

(d) Work out 80% of £18.40

(e) Work out 15% of £18.40

## 7. NO calculator (testing calculations from Strand 4, 5 or 6)

The headteacher asks 240 students Year 9 students about their GCSE options.

20% of the students chose to study Chinese.

Calculate how many students chose to study Chinese.

## 8. NO calculator

(a) Izzy earns £18 000 per year.

She will have a pay rise of 2.5% next year.

How much will her new salary be?

(b) A fridge-freezer costs £260

Hettie gets 5% off the price of the fridge-freezer.

Work out how much she has to pay for the fridge-freezer.

## 9. CALCULATOR OK:

(a) Habiba got 78 out of 150 in his test.

Express 78 as a percentage of 150

(b) Amelie is training for a half marathon.

The table below shows her 25 kilometre training programme for one week.

Sunday	long slow run	12 kilometres
Tuesday	recovery run	4 kilometres
Wednesday	hill running	6 kilometres
Friday	speed running	3 kilometres

Calculate the percentage of Amelie's training that is speed running.

(c) Amna conducts a survey.

She asks 40 girls about their morning routines.

7 of the girls spend less than half an hour getting ready in the mornings.

Calculate the percentage of these girls who spend up less than an hour getting ready.

## 10. NO calculator

(a) Evan is cooking soup.

He has a one kilogram of vegetables.

450 grams of the vegetables are pumpkin.

Write down 450 grams as a percentage of 1 kilogram.

(b) Isla buys a multi-pack of 15 packets of crisps.

3 of the crisp packets are cheese and onion.

What percentage of the multi-pack is cheese and onion flavour.

- (c) Rafan is swimming 2 kilometres.  
He has swum 700 metres so far.  
Write down 700 metres as a percentage of 2 kilometres.
- (d) Mahirah had £25 to spend last week.  
She spent £3 on a magazine.  
Express £3 out of £25 as a percentage.

11. Use a calculator

- (a) Chloe's height increases from 145cm to 164cm  
Calculate the percentage increase in Chloe's height.  
Give your answer correct to 3 significant figures.
- (b) Carol wants to be a Meteorologist.  
She measures the rainfall in her home town from January to April.  
The table below shows the monthly rainfall (in mm) in Carol's home town.

Jan	Feb	Mar	Apr
82.9	60.3	64	58.7

Work out the percentage decrease of rain from January to April.  
Give your answer correct to 3 significant figures.