

**Non-calculator Questions**

NCFE

1.

Alex has just finished Year 11 at Canford School.

Eight tenths of the Year 11 students are going to college in September.

Complete the fraction to show another way of writing  $\frac{8}{10}$

**[1 mark]**

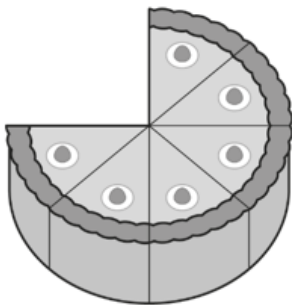
$$\frac{\square}{5}$$

2.

Yesterday Amy made a cake.

She cut the cake into eight pieces and sold two pieces.

Six pieces were left over.



Complete the fraction to show how much of the cake was left over.

**[1 mark]**

$$\frac{\square}{4}$$

**Calculator Questions**

Edexcel

1.

Riya and her friends want to rent a flat with parking.

In their town, 3 of the 15 flats have parking.

**Which fraction is equal to  $\frac{3}{15}$ ?**

(1)

Tick (✓) the correct answer.

$$\frac{3}{5}$$

$$\frac{15}{100}$$

$$\frac{1}{5}$$

$$\frac{1}{3}$$

( )

( )

( )

( )

2.

Bret designs a page in a newspaper.

The page has a length of 36 cm.

An advert will take  $\frac{1}{3}$  of the length of the page.

Bret says the advert needs to be 10 cm in length.

**Is Bret correct?**

**Show why you think this.**

(1)

Show your working and your answer here.

Tick (✓) the correct answer.

Yes ( ) No ( )

NCFE

3.

Daniel eats  $\frac{1}{4}$  of the sweets.

What fraction of the sweets are left?

**[1 mark]**

4.

Six out of 10 bags have been loaded onto the plane.

What fraction of the bags have been loaded onto the plane?

**[1 mark]**

$$\frac{\square}{5}$$

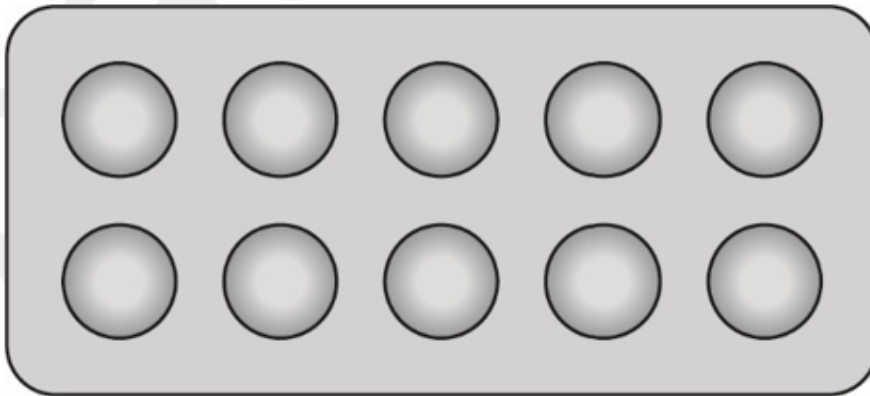
5.

Alfie needs some medicine.

Carly gives him  $\frac{1}{5}$  of the tablets in this pack.

Tick (✓)  $\frac{1}{5}$  of the tablets.

[1 mark]



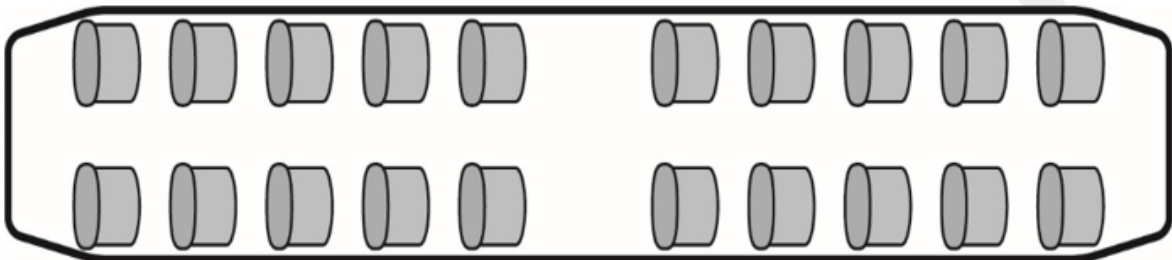
6.

This is the seating plan of their carriage.

$\frac{1}{10}$  of the seats are empty.

Tick (✓)  $\frac{1}{10}$  of the seats.

[1 mark]



City & Guilds

7.

The man wants to know if it is cheaper to go to the airport by train or by car.

A return train ticket to the airport is £93

There is  $\frac{1}{3}$  off the price when the ticket is bought in advance.

What will the price of the ticket be if he buys it in advance?

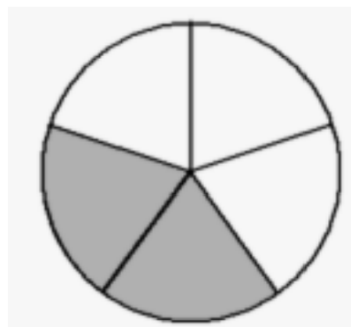
Show your working out

Working out area with a light blue background. At the bottom right, there is a label "£" followed by a dotted line and a light blue box for the answer.

3 marks

8.

What fraction of this shape is shaded?



Working out area with a light blue background and a dotted line at the bottom for the answer.

1 mark

9.a)

A club plans to hold a Barbecue for 300 people.

She allows **two sausages** for **each person**.

A club member needs to order the rolls **and** sausages.  
She needs to order **one long roll** for **each sausage**.



long roll

The rolls are sold in packs of 36

How many packs of rolls must she order?

Show your working out.

..... packs of rolls

4 marks

b)

She needs to order the sausages.

$\frac{1}{10}$  of the number of sausages need to be vegetarian.

How many vegetarian sausages will she order?

Show your working out.

..... vegetarian sausages

2 marks

10.

A customer buys a bed.



She must pay  $\frac{1}{4}$  of the price today.

She will pay the rest when the bed is delivered.

How much will the customer pay today?

Show your working out

Amount to pay today £

2 marks

11.a)

A farmer needs to rent a tractor and a trailer at harvest time.

She needs to rent a tractor and trailer for **12 weeks** and wants to hire the **cheapest** one.



Tractor and Trailer	Cost to rent	Time
A	£75	per week
B	£1000	for 12 weeks
C	£920	for 12 weeks

Which tractor and trailer should she rent?

Show your working out.

Tractor and Trailer (tick one)    A     B     C

Cost for 12 weeks £ .....

**2 marks**

b)

She must pay  $\frac{1}{5}$  of the cost to rent the tractor and trailer today.

She will pay the rest when she collects the tractor and trailer.

What amount will she pay today?

Show your working out.

£.....

**2 marks**



Open Awards

12.

(3 marks)

Hanif wants to buy some goggles.

He chooses a pair of goggles that cost **£8.80**

He sees a special offer on this pair of goggles.

**Special Offer!**

**$\frac{1}{4}$**

**off the price of  
swimming  
goggles**

Hanif thinks the goggles will cost **£6.00**

Is Hanif correct? Explain your answer.

Show your workings