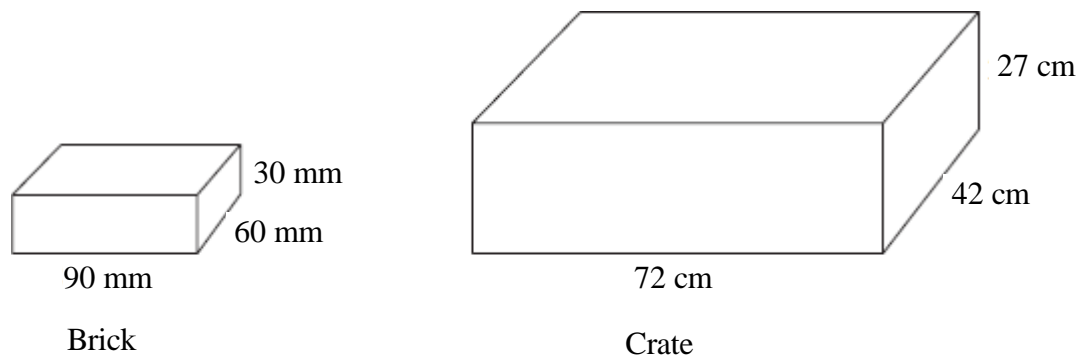


Pearson
Edexcel

Name: _____

BennettMaths Edexcel 2F – Part 2

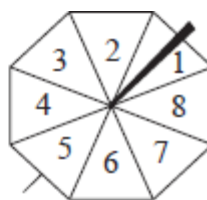
14 Bricks are put into crates.



Each brick is a cuboid, 90 mm by 60 mm by 30 mm.
Each crate is a cuboid, 72 cm by 42 cm by 27 cm.
Work out the greatest number of bricks that can be put into each crate.

.....
(Total for Question 14 is 4 marks)

- 15** Here is a fair ordinary dice and a fair 8-sided spinner.



Sammy throws the dice once and spins the spinner once.

Is Sammy more likely to get

a number less than 5 on the dice
or a number greater than 3 on the spinner?

You must show all your working.

(Total for Question 15 is 3 marks)

- 16** David drives at an average speed of 44 km/h for 2 hours 15 minutes.
Work out the distance David drives.

..... km

(Total for Question 16 is 3 marks)

17 There are 4 theatres **A**, **B**, **C** and **D**.

The mean number of seats per theatre is 380

There are 375 seats in theatres **A**.

There are 225 seats in theatres **B**.

There are 470 seats in theatres **C**.

Work out the number of seats in theatres **D**.

.....
(Total for Question 17 is 4 marks)

18 Aston buys 270 chocolate bars.

The chocolate bars are sold in packs.

There are 15 chocolate bars in each pack.

Each pack costs £4

(a) Work out the total cost of the chocolate bars Aston buys.

£.....
(3)

Ellie buys 36 cartons of juice for £25

There are 350 ml of juice in each carton.

(b) Work out the cost of 200 ml of juice.

Give your answer correct to the nearest penny.

.....p
(3)

(Total for Question 18 is 6 marks)

19 140 people attend an open air concert.

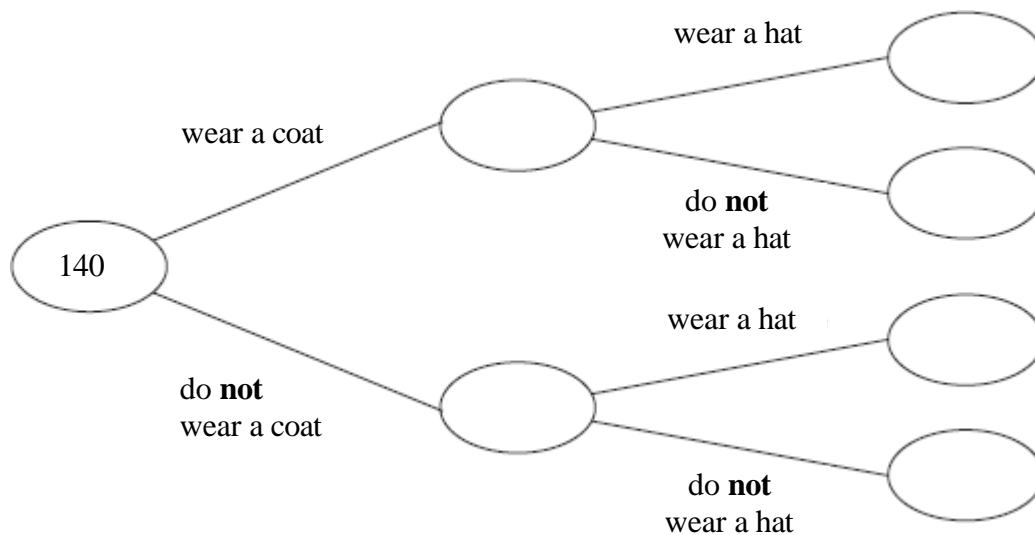
Of these people

80 wear a coat

35 wear a hat

25 of the people who wear a hat do **not** wear a coat.

(a) Use this information to complete the frequency tree.



(3)

(b) What percentage of the 80 people who wear a coat do **not** wear a hat?

.....%

(2)

(Total for Question 19 is 5 marks)

20 (a) Work out the value of $\frac{\sqrt{1577} - 32}{2.3^2 - 5}$

Write down all the figures on your calculator display.

.....
(2)

(b) Work out the value of the reciprocal of 0.8

.....
(1)

(Total for Question 20 is 3 marks)
