

**FOUNDATION TIER  
MINI PRACTICE EXAM 10**



**NON-CALCULATOR  
20 MINUTES ALLOWED**

1.  
(a) Write down all factors of 30 that are not factors of 15.

30: ~~1~~, 30, 2, 15, ~~3~~, 10, ~~5~~, 6  
15: ~~1~~, 15, ~~3~~, ~~5~~

30, 2, 10, 6

(1)

- (b) Write down all multiples of 12 between 70 and 100.

72, 84, 96

(1)

2.  
Below is part of a bus timetable.

Formby Bus Station	08:30	09:00	09:45	10:35
Morton Gardens	08:42	09:12	09:55	10:45
Ingham Road	08:51	09:21	10:03	10:53
Rowe Crescent	08:58	09:28	10:09	10:59
Lewis Road	09:20	09:50	10:30	11:20

- (a) Ben caught the bus from Formby Bus Station at 09:00.  
He arrived at Lewis Road at 10:09.  
How many minutes late did the bus arrive?

19 minutes

(1)

- (b) Carly lives on Morton Gardens.  
She wants to arrive at Lewis Road by 09:30.  
What time should Carly catch the bus from Morton Gardens?

8:42

(1)

3.  
(a) Work out  $7.6 \times 2.3$

$$\begin{array}{r} 7.6 \\ \times 2.3 \\ \hline 228 \\ 1520 \\ \hline 1748 \end{array}$$

17.48

(2)

- (b) Work out  $26.4 \div 1.2$

$$12 \overline{) 264} \begin{array}{l} 022 \\ \hline \end{array}$$

22

(2)

4.

David ran a hot dog stand at a football stadium on Saturday.

Each hot dog requires one sausage and one roll.

Sausages are sold in jars of 8 for £2.00 each.

Rolls are sold in packs of 6 for £1.20 each.

He bought 50 packs of rolls and 30 jars of sausages.

He also had to pay the stadium £320 to set up his stand.

On Saturday, he sold 200 hot dogs for £3.50 each.

(a) How much profit did David make?

<p>Spent:</p> <p>Sausages: <math>30 \times 2 = £60</math></p> <p>Rolls: <math>50 \times 1.20 = £60</math></p> <p>Stand: £320</p> <p><math>60 + 60 + 320 = £440</math></p>		<p>Sold:</p> <p><math>200 \times 3.50 = £700</math></p> <p><math>\begin{array}{r} 700 \\ - 440 \\ \hline 260 \end{array}</math></p> <p style="text-align: right;"><u>£260</u></p>
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(5)

(b) How many extra hot dogs could David make with the leftover rolls and sausages?

Sausages:  $8 \times 30 = 240 - 200 = 40$

Rolls:  $6 \times 50 = 300 - 200 = 100$

40

(2)

5.

1,800 dog owners were asked their favourite breed of dog.

The results are shown on the below pie chart.

(a) What fraction of the dog owners said "German Shepherd"? Give your answer in its simplest form.

$$\frac{120}{360} = \frac{1}{3}$$

(2)

(b) Of those who said "Other", it is revealed that  $\frac{3}{8}$  of the dog owners said "Beagle".

How many dog owners said "Beagle"?

$$\frac{3}{8} \times 96 = 3 \times 12 = 36$$

$$\frac{36}{360} = \frac{1}{10} \times 1,800 = \underline{180}$$

(3)

