

1 Berenika wants to buy 35 T-shirts.

Each T-shirt costs £5.80

Berenika does the calculation $40 \times 6 = 240$ to estimate the cost of 35 T-shirts.

(a) Explain how Berenika's calculation shows the actual cost will be less than £240

(1)

There is a special offer.

T-shirts £5.80 each. Buy 30 or more T-shirts. Get 10% off the total cost.

(b) Work out the actual cost of buying 35 T-shirts using the special offer.

£.....

(4)

(Total for Question 1 is 5 marks)

2 The table shows the costs of sending a parcel by the Express service and by the Rapid service.

Type of service	Cost
Express	£15.25
Rapid	£35.38

Brendan has to send 12 parcels.

It will be cheaper to send the parcels by the Express service than by the Rapid service.

(a) How much cheaper?

£.....
(3)

Luke wants to send 21 parcels by the Express service.

He does the calculation $20 \times £15 = £300$ to estimate the cost.

(b) Explain why Luke's calculation shows the actual cost will be more than £300

.....
.....
.....
(1)

(Total for Question 2 is 4 marks)

- 3 Work out an estimate for $\frac{790 \times 289}{49}$

.....
(Total for Question 3 is 3 marks)

Summer 2022 Paper 1 Q15

- 4 (a) Work out an estimate for the value of 92×1.63
You must show all your working.

.....
(2)

Given that

$$2.96 \times 3.2 = 9.472$$

- (b) find the value of 29.6×32

.....
(1)

(Total for Question 4 is 3 marks)

5 Ami and Josh use a calculator to work out $\frac{595}{4.08^2 + 5.3}$

Ami's answer is 27.1115

Josh's answer is 271.115

One of these answers is correct.

Use approximations to find out which answer is correct.

(Total for Question 5 is 3 marks)