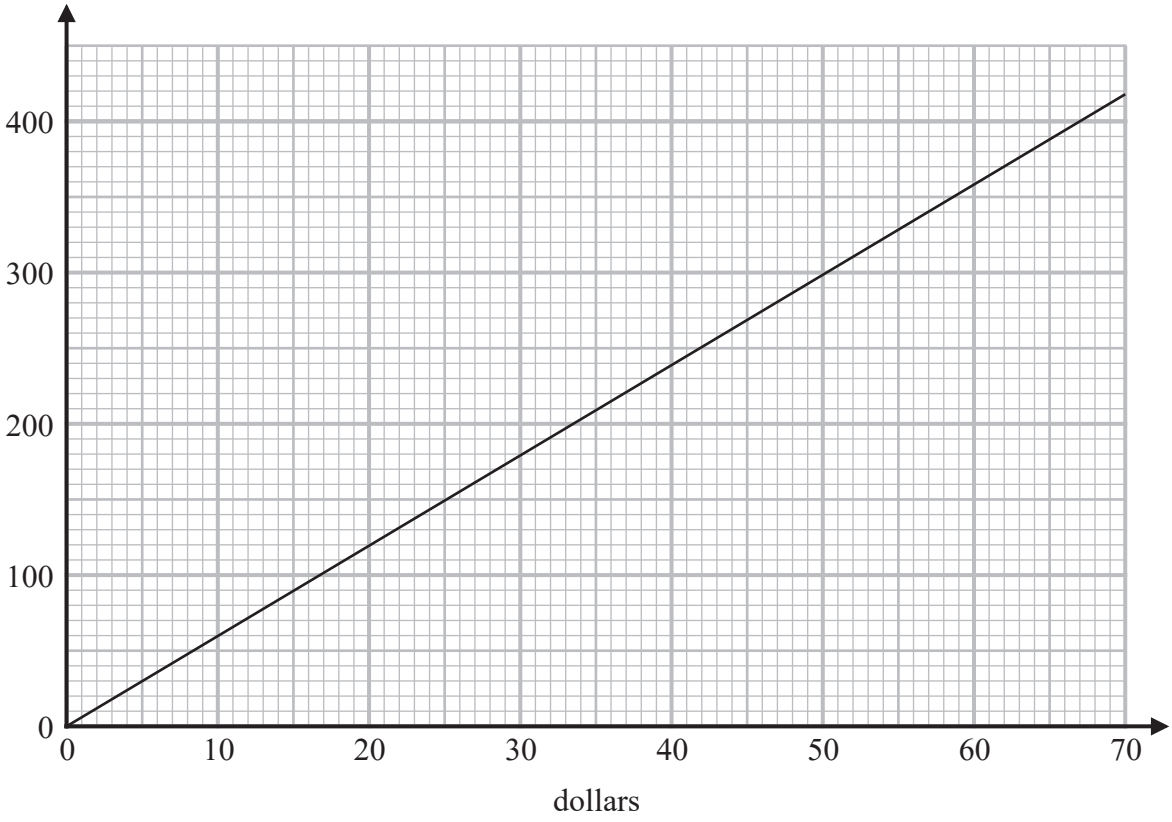
10 The graph below can be used to change between dollars and Danish krone.



(a) Change 40 dollars to Danish krone.

..... Danish krone
(1)

(b) Change 350 Danish krone to dollars.

..... dollars
(1)

Robert needs 950 Danish krone to pay for a hotel stay.
He has 170 dollars.

(c) Show that Robert has enough money to pay for his hotel stay.

(2)

(Total for Question 10 is 4 marks)

11 (a) Work out the value of $\dfrac{2.5 + 3.6}{12.7} + \dfrac{8.2}{5 \times 3.6}$

Give your answer as a decimal.
Write down all the figures on your calculator display.

.....

(2)

(b) Write your answer to part (a) correct to 3 significant figures.

.....

(1)

(Total for Question 11 is 3 marks)

12 Aarav uses this rule to estimate the time, in minutes, that a bus journey takes.

Time	=	2.5 × length of journey in kilometres	+	1.5 × number of bus stops

Aarav's bus journey to work has a length of 12 kilometres.
There are 5 bus stops on the route.

(a) Use Aarav's rule to work out an estimate for the time this bus journey takes.

..... minutes
(2)

A different bus journey takes 55 minutes.
There are 8 bus stops on the route.

(b) Use Aarav's rule to work out an estimate for the distance of this bus journey.

..... km
(3)

(Total for Question 12 is 5 marks)

13

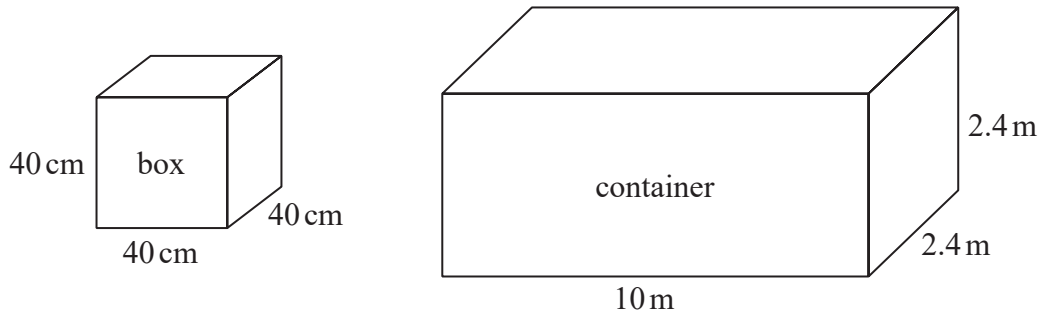


Diagram **NOT** accurately drawn

Tom puts boxes into a shipping container.

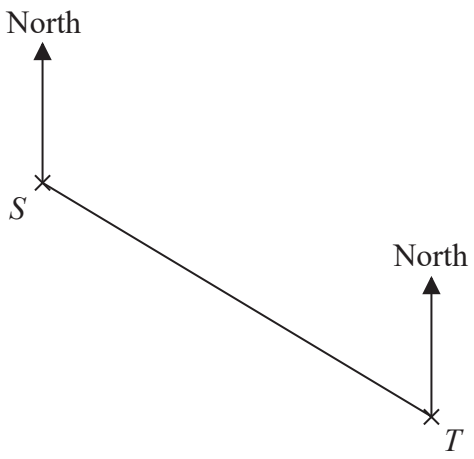
The container is a cuboid 10 metres by 2.4 metres by 2.4 metres.
Each box is a cube of side 40 centimetres.

Work out the greatest number of these boxes that Tom can put into the container.

.....

(Total for Question 13 is 3 marks)

14 The accurate scale drawing shows the positions of two lighthouses, S and T



The scale of the drawing is 1 cm to 2 km

(a) Find, by measuring, the bearing of lighthouse T from lighthouse S

.....°

(1)

A boat is on a bearing of 084° from S
The boat is 13 km from T

(b) On the diagram, mark with a cross (×) the position of the boat.
Label the cross B

(3)

(Total for Question 14 is 4 marks)

15 The table shows information about the frame size, in cm, of 60 bicycles sold in a shop.

Frame size (S cm)	Frequency
$30 < S \leqslant 36$	4
$36 < S \leqslant 42$	14
$42 < S \leqslant 48$	18
$48 < S \leqslant 54$	19
$54 < S \leqslant 60$	5

(a) Write down the modal class.

.....

(1)

(b) Work out an estimate for the mean frame size.

..... cm

(4)

(Total for Question 15 is 5 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

16 The diagram shows a solid triangular prism.

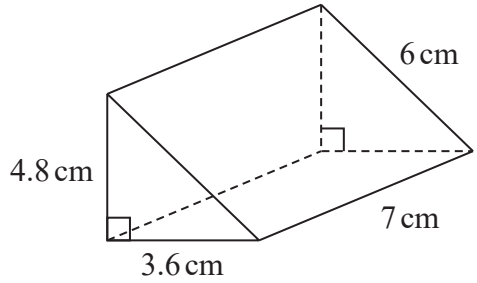


Diagram **NOT** accurately drawn

Work out the **total** surface area of the triangular prism.
Give your answer correct to 3 significant figures.

..... cm^2

(Total for Question 16 is 3 marks)