



Year 7 Numeracy

Non-calculator

Full-length Test 7

Writing time: 40 minutes

Use 2B pencil only

Instructions

- Write your **student name** in the space provided.
- You must be silent during the test.
- If you need to speak to the teacher, raise your hand. Do not speak to other students.
- Answer all questions using a 2B pencil.
- If you wish to change your answer, erase it thoroughly and then write your new answer.
- Students are NOT permitted to bring a calculator into the test room.

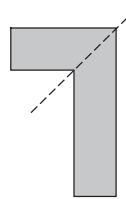
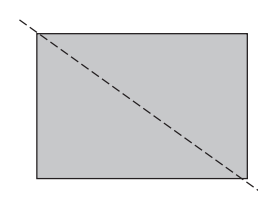
Student name:

QUESTION 1**WRITE YOUR OWN ANSWER**

$$483 - 152 = \boxed{331}$$

QUESTION 2

Which dotted line is a line of symmetry?

**SHADE ONE BOX****QUESTION 3**

$$8.5 \times 1000 =$$

☐ 0.085☐ 0.85☐ 850☒ 8500**SHADE ONE BOX****QUESTION 4**

Laura's school begins at 8.20 a.m. and finishes at 3.30 p.m. How many hours and minutes are in Laura's school day?

☐ 5 h 50 min☐ 6 h 10 min☒ 7 h 10 min☐ 7 h 50 min**SHADE ONE BOX****QUESTION 5**

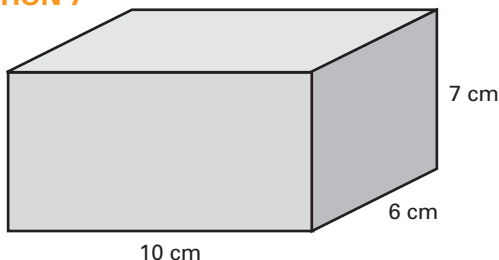
Which is the largest?

☐ $\frac{3}{4}$ ☐ 60%☐ 0.7☒ 0.8**SHADE ONE BOX****QUESTION 6**

$$(7 \times 1000) + (2 \times 10) + 4 = ?$$

☐ 724☒ 7024☐ 7204☐ 7240**SHADE ONE BOX****QUESTION 7**

Not to scale

**SHADE ONE BOX**

The volume of this rectangular prism would be calculated using:

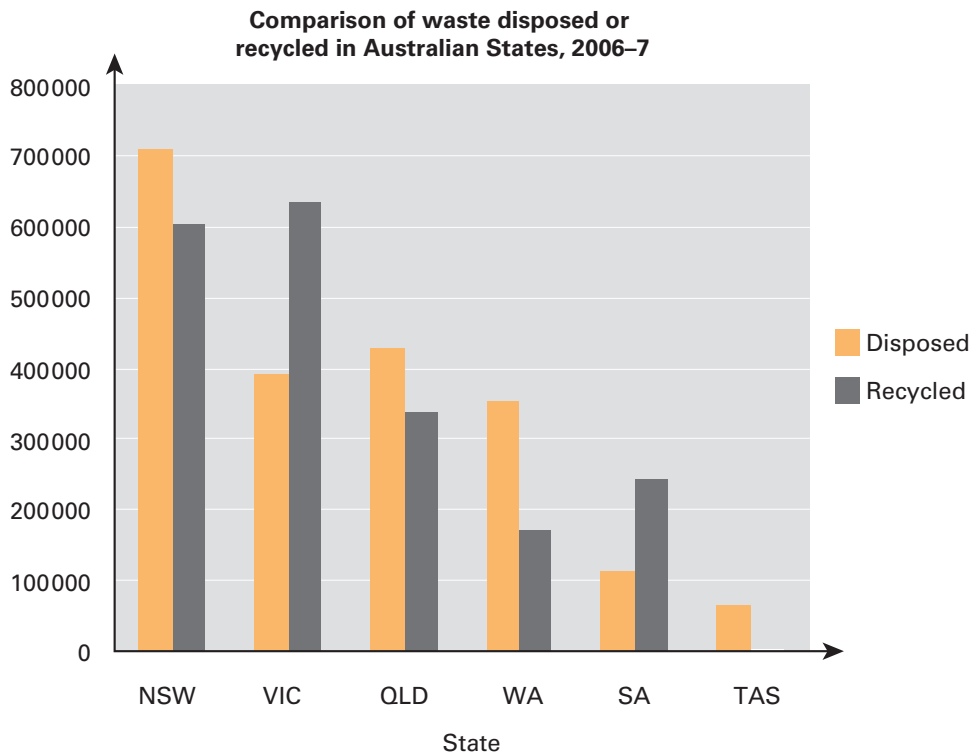
☐ $V = 10 + 6 + 7$ ☒ $V = 10 \times 6 \times 7$ ☐ $V = 3 \times (10 \times 6 \times 7)$ ☐ $V = (10 \times 6 + 10 \times 7 + 6 \times 7) \times 2$

QUESTION 8

SHADE ONE BOX



Look at the column graph shown below.



How many states recycled more materials than they disposed of?

☐ 1

☒ 2

☐ 3

☐ 4

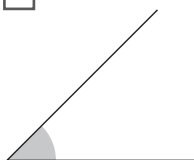
QUESTION 9

SHADE ONE BOX

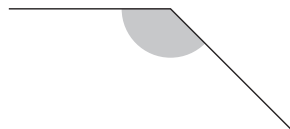


Which diagram shows an obtuse angle?

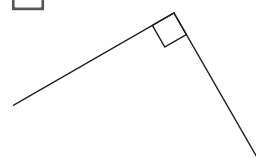
☐



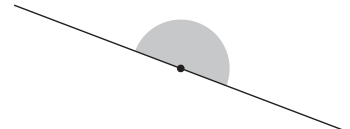
☒



☐



☐



QUESTION 10

SHADE ONE BOX



Owen has a bag of 12 marbles. If a marble is taken from the bag without looking, the probability of selecting a blue marble is $\frac{1}{3}$. How many blue marbles does Owen have?

☐ 2

☐ 3

☒ 4

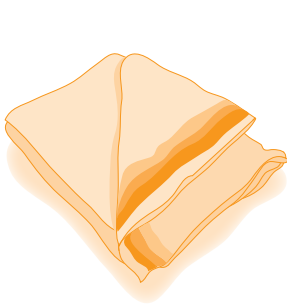
☐ 6

QUESTION 11

SHADE ONE BOX



What is the best way to estimate the total cost of these items?



beach towel
\$29



backpack
\$89



joggers
\$63

- ☐ \$30 + \$80 + \$60
- ☐ \$30 + \$80 + \$70
- ☒ \$30 + \$90 + \$60
- ☐ \$30 + \$90 + \$70

QUESTION 12



WRITE YOUR OWN ANSWER

One quarter of Matthew's savings is \$12. How much money does Matthew have in savings?

\$ 48

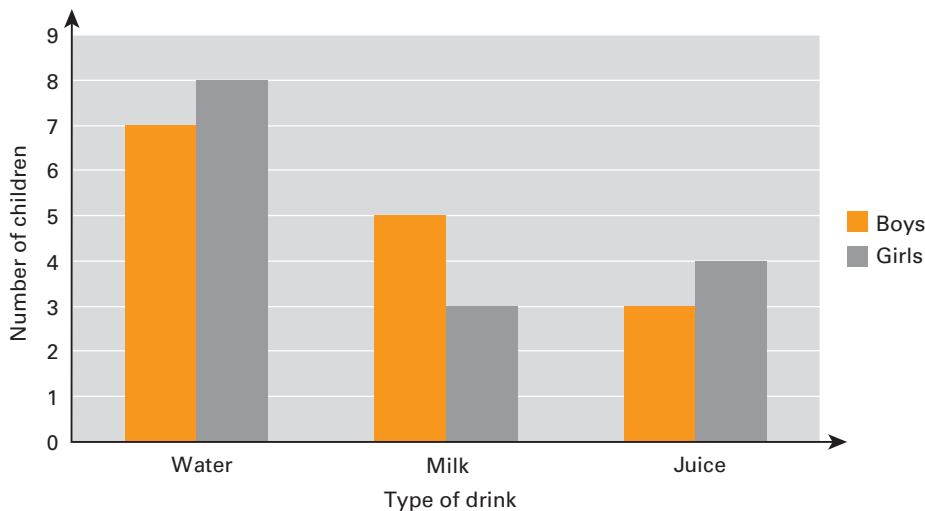
QUESTION 13



WRITE YOUR OWN ANSWER

The graph shows the types of drinks preferred by children at a sports match.

Children's drink choices



Use the information in the graph to complete this table.

Drinks	Boys	Girls
Water	7	8
Milk	5	3
Juice	3	4

QUESTION 14

SHADE ONE BOX

If $a = 6$ and $b = 4$, the correct substitution for ab is:

☒ 6×4

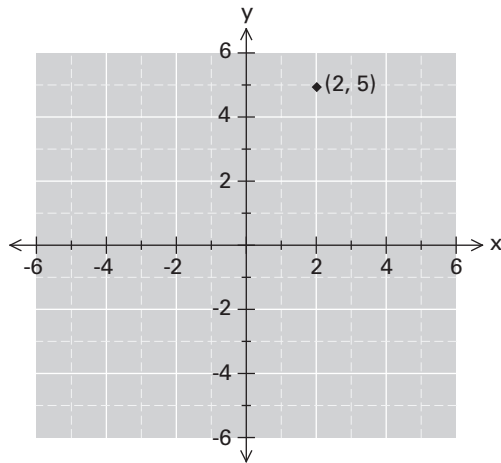
☐ $6 + 4$

☐ $6 - 4$

☐ $6 \div 4$

QUESTION 15

WRITE YOUR OWN ANSWER

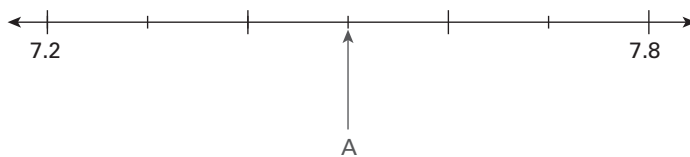


What is the ordered pair, 4 units to the left and 1 unit down from $(2, 5)$?

QUESTION 16

SHADE ONE BOX

A number line is shown below.



What number is represented on the number line by A?

☐ 7.3

☐ 7.4

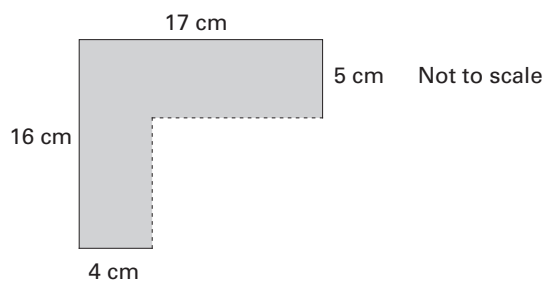
☒ 7.5

☐ 7.6

QUESTION 17

SHADE ONE BOX

In the shape below, what is the total length of the two sides with dotted lines?



☒ 24 cm

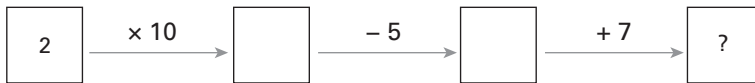
☐ 22 cm

☐ 21 cm

☐ 17 cm

QUESTION 18**WRITE YOUR OWN ANSWER**

A flow chart is shown below.

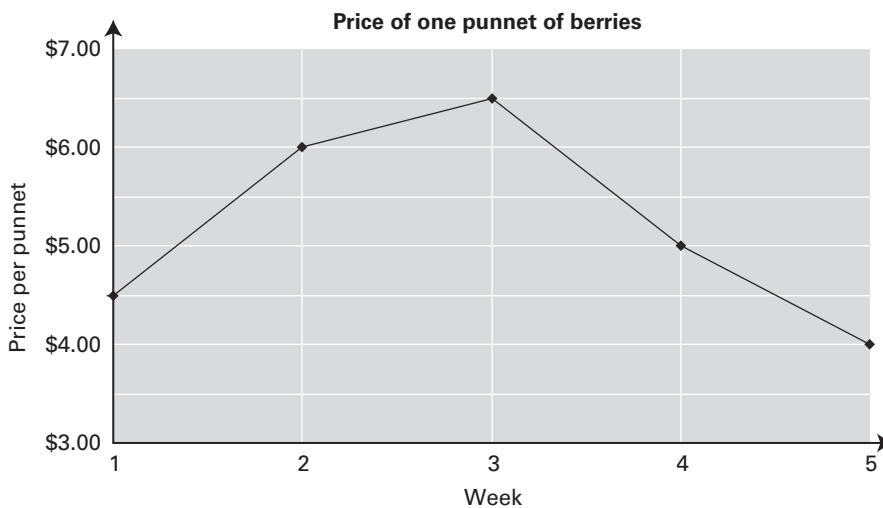


What is the missing number?

22

QUESTION 19**SHADE ONE BOX**

Ben owns a fruit shop. He constructed a line graph to show the price of one punnet of berries over a five-week period.

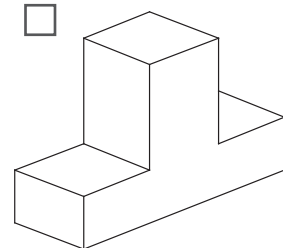
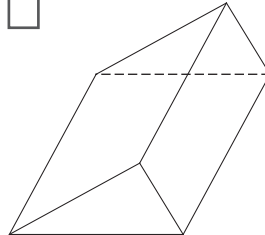
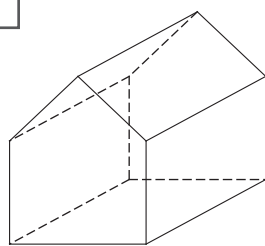
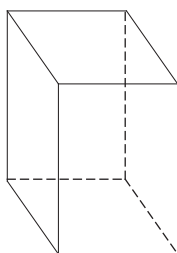


Which of the following statements is true?

- ☐ In week 1, the cost of two punnets of berries was \$10.
- ☒ The price of one punnet of berries was highest in week 3.
- ☐ The cost of one punnet of berries doubled in week 2.
- ☐ The largest drop in price for one punnet of berries was from week 4 to week 5.

QUESTION 20**SHADE ONE BOX**

Which solid has exactly six faces and 12 edges?

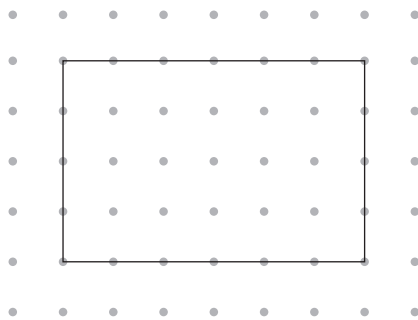


QUESTION 21

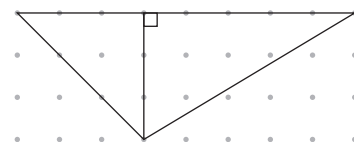
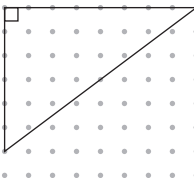
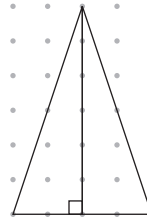
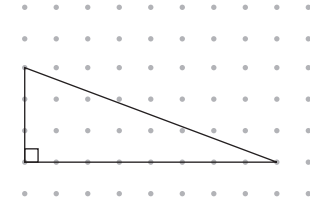
SHADE ONE BOX



The diagram below shows a rectangle with length 6 cm and width 4 cm.



Which triangle has the same area as this rectangle?

☐☒☐☐

QUESTION 22



WRITE YOUR OWN ANSWER

The maximum and minimum daily temperatures ($^{\circ}\text{C}$) in London for one week in February are shown below.

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Minimum Temperature ($^{\circ}\text{C}$)	-2	1	0	-1	-2	0	-1
Maximum Temperature ($^{\circ}\text{C}$)	2	4	4	3	3	4	5

Which day shows the greatest difference in temperature?

Saturday

QUESTION 23

SHADE ONE BOX



Which of the following is equivalent to $3x + 4xy + 5x + y$?

☐

$12x^2y^2$

☐

$y + 5xy$

☐

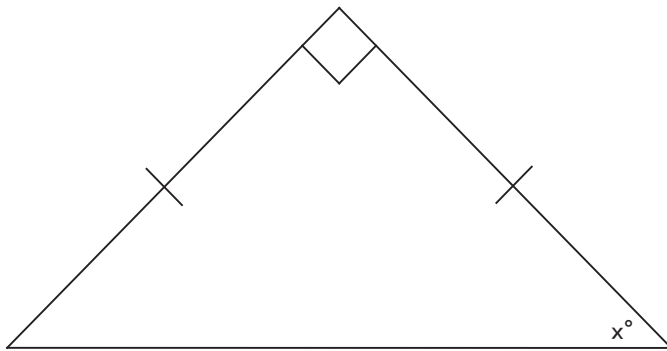
$8x + 5y$

☒

$8x + 4xy + y$

QUESTION 24

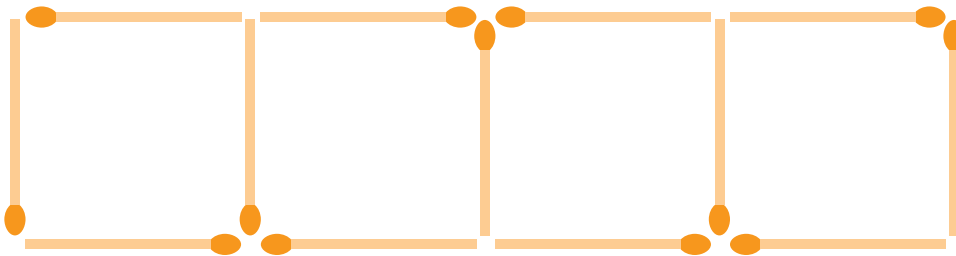
What is the size of the angle marked x° in the triangle?

SHADE ONE BOX☐ 30° ☒ 45° ☐ 55° ☐ 60° **QUESTION 25**

Min and Scott share \$30 between them in the ratio 2 to 1. How much money does Min receive?

SHADE ONE BOX☒ \$20☐ \$15☐ \$10☐ \$5**QUESTION 26**

This pattern uses matchsticks to make squares.

**WRITE YOUR OWN ANSWER**

This pattern is continued until there are 9 squares. How many matchsticks are used in total?

matchsticks

QUESTION 27

A car travels at a speed of 90 km/h. How far will it travel in 1 hour and 20 minutes?

SHADE ONE BOX☐ 75 km☐ 100 km☐ 108 km☒ 120 km**QUESTION 28**

Sydney is two hours behind New Zealand in time. A plane leaves New Zealand at 9.00 a.m. and flies to Sydney. The flight takes three hours. What time is it in Sydney when the plane arrives?

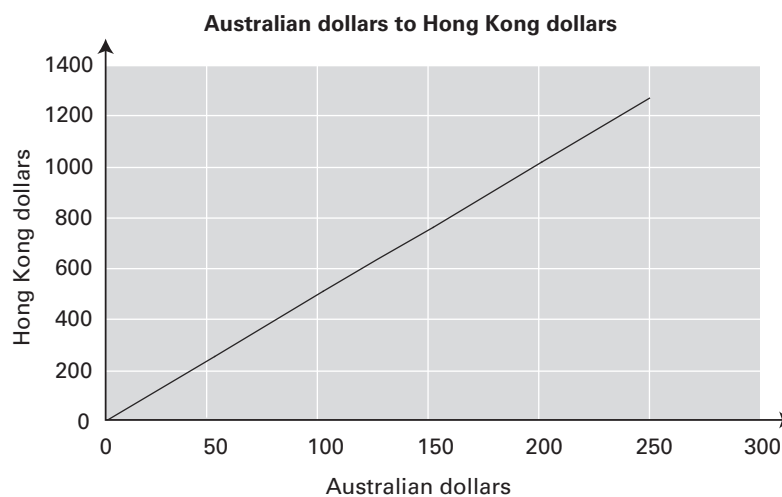
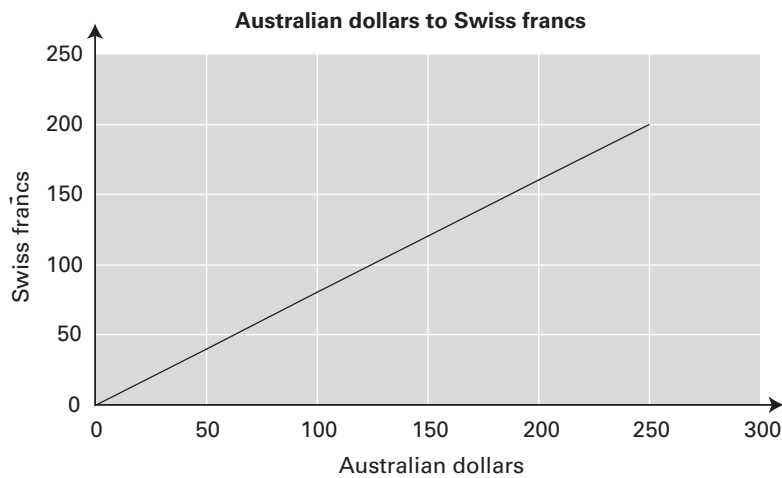
SHADE ONE BOX☐ 8 a.m.☐ 9 a.m.☒ 10 a.m.☐ 11 a.m.

QUESTION 29



WRITE YOUR OWN ANSWER

Luke uses these two conversion graphs.



How many Hong Kong Dollars are equal in value to 100 Swiss Francs?
Give your answer to the nearest \$100.

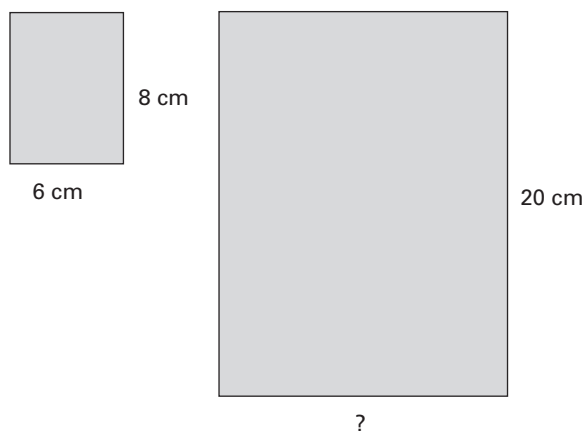
Approx \$HK

QUESTION 30

SHADE ONE BOX



Michael has an original photo with dimensions 6 cm by 8 cm. Michael wants to enlarge the photo so it has a height of 20 cm.



What will be the width of the enlarged photo?

☐ 18 cm

☐ 16 cm

☒ 15 cm

☐ 12 cm

QUESTION 31**WRITE YOUR OWN ANSWER**

Amy has \$9 more than Mia. In total, they have \$47. How much money does Mia have?

\$ 19

QUESTION 32**SHADE ONE BOX**

A bowl of fruit punch is made for a party. Fruit punch is made up of fruit juice, lemonade and fruit pieces. Fruit juice makes up $\frac{3}{4}$ of the punch and lemonade makes up $\frac{1}{5}$ of the punch. What fraction of the fruit punch is fruit pieces?

☒ $\frac{1}{20}$ ☐ $\frac{4}{9}$ ☐ $\frac{11}{20}$ ☐ $\frac{5}{9}$