

This test covers material students should know before starting Primary Mathematics SIE 5B.
A protractor is needed for this test.

1 How many digits are there in the number ten million?

2 Write the number in numerals.

(a) Eight hundred and forty-two thousand, six hundred and five

(b) Three hundred thousand and thirty

(c) Six million, four hundred and seven thousand and nineteen

3 Fill in the missing numbers.

(a) $2,000,000 + 800,000 + 9,000 + 500 =$

(b) $3,019,005 = 3,000,000 +$

$+ 9,000 + 5$

(c) $605,700,016 = 600,000,000 +$

$+ 16$

4 Use the digits 6, 5, 1, 3, 8, 2, and 4 to form the greatest 7-digit number that is less than 6 million.

5 Fill in the boxes.

(a) $35\,510 \times 100 =$

(b) $1000 \times 500 =$

(c) $310\,000 \div 1000 =$

(d) $80\,000 \div 10 =$

(e) $\times 100 = 30\,000$

(f) $\div 1000 = 280$

6 Multiply or divide.

(a) $2600 \times 20 =$

(b) $6000 \times 314 =$

(c) $2\,100\,000 \div 700 =$

(d) $92\,400 \div 600 =$

(e) $602 \times 700 =$

(f) $56\,000 \div 500 =$

7 Find the value of each expression.

(a) $100 - 5 \times 9 \div 3$

(b) $40 + 40 \div 8 - 10$

(c) $35 \div 5 + 2 \times 7$

(d) $24 \div 4 \times 3$

8 Find the values of each expression.

(a) $80 \div (5 + 5) - 8$

(b) $3 \times (18 \div 3) + (4 \div 2)$

(c) $(60 \div 10) + (7 - 3) \div 2$

(d) $3 \times (8 - 35 \div 7) \div 3 + 2 \times 2$

9 Express each answer as a fraction or mixed number in its simplest form.

(a) $6 \div 9$

(b) $4 \div 10$

(c) $13 \div 5$

(d) $26 \div 6$

10 Add or subtract. Express each answer as a proper fraction or mixed number in its simplest form.

(a) $2\frac{5}{12} + \frac{5}{8} =$

(b) $1\frac{3}{4} + 2\frac{5}{12} =$

(c) $3\frac{1}{6} - \frac{2}{3} =$

(d) $4\frac{3}{10} - 2\frac{3}{6} =$

11 The mass of Box X is $8\frac{1}{2}$ kg.

The mass of Box X is $2\frac{2}{5}$ kg less than the mass of Box Y.

The mass of Box Y is $1\frac{1}{4}$ kg more than the mass of Box Z.

What is the mass of Box Z?

12 Multiply. Express each answer as a proper fraction or mixed number in its simplest form.

(a) $\frac{2}{5} \times 12 =$

(b) $4 \times \frac{7}{3} =$

(c) $\frac{9}{18} \times \frac{2}{3} =$

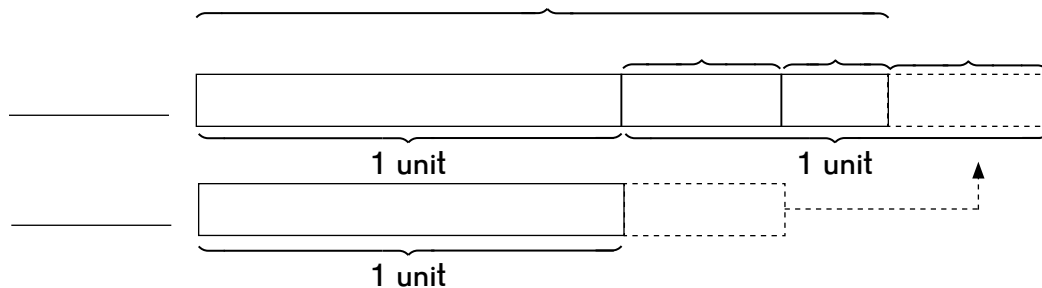
(d) $\frac{2}{5} \times \frac{10}{3} =$

(e) $\frac{20}{9} \times \frac{6}{5} =$

(f) $6 \times 1\frac{2}{9} =$

- 13 The length of a piece of rope is $2\frac{2}{5}$ m.
What is the total length of 6 such identical pieces of rope?

- 14 Leila had \$60 more than Siti at first.
Then Siti gave Leila \$80.
Now Leila has twice as much money as Siti.
How much money did Leila have at first?

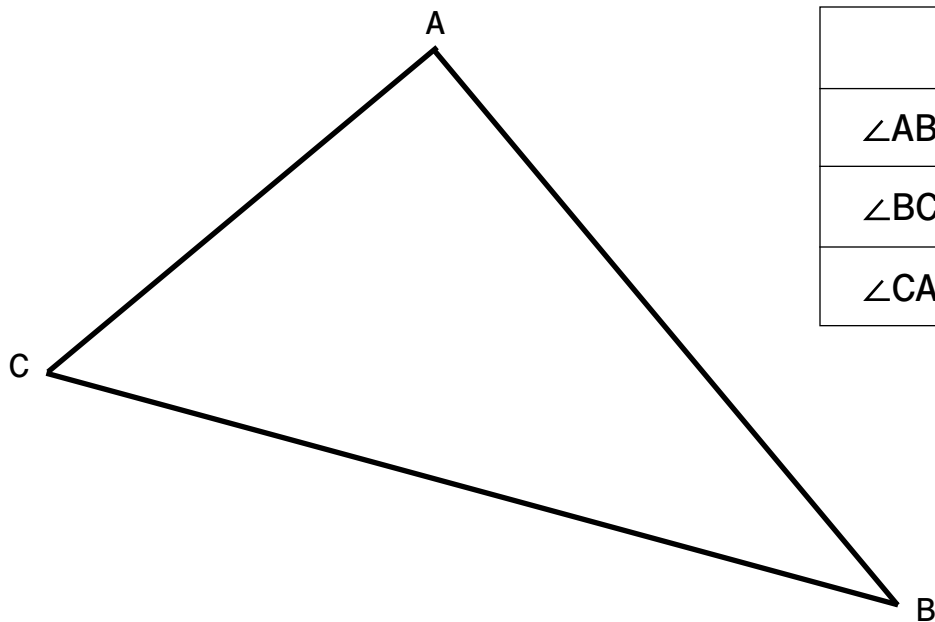


- 15** Dennis and Sandy had the same amount of money at first.
Dennis spent \$60.30 and Sandy spent \$24.60.
Then Sandy had 4 times as much money as Dennis.
How much money did each of them have at first?

- 16** A baker made 120 cookies.
She sold $\frac{2}{5}$ of them in the morning and $\frac{3}{4}$ of the remainder in the afternoon.
How many cookies did she have left?

- 17** In a group, 18 children like to swim and $\frac{3}{7}$ of the remaining children like to jog.
 The rest like to cycle.
 $\frac{1}{4}$ of the children like to cycle.
 How many children were in the group?

- 18** Measure the size of each angle.
 Identify the type of each angle (acute, obtuse, or right).

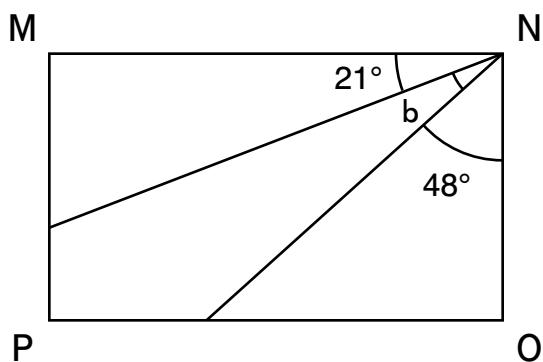


	Size	Type
$\angle ABC$		
$\angle BCA$		
$\angle CAB$		

19 (a) Draw $\angle XYZ = 140^\circ$.

(b) What type of angle is $\angle XYZ$?

20 MNOP is a rectangle.
Find $\angle b$ (without measuring the angle).



21 Convert the following.

(a) $4 \ell 88 \text{ ml} = \boxed{} \text{ ml}$

(b) $2 \text{ m } 10 \text{ cm} = \boxed{} \text{ cm}$

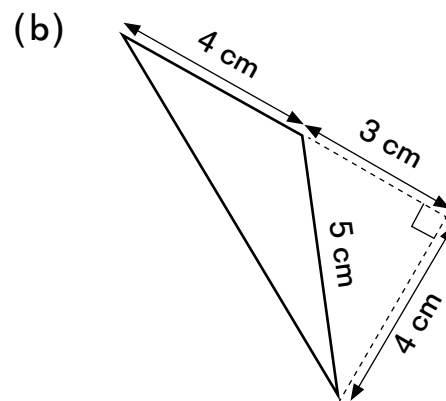
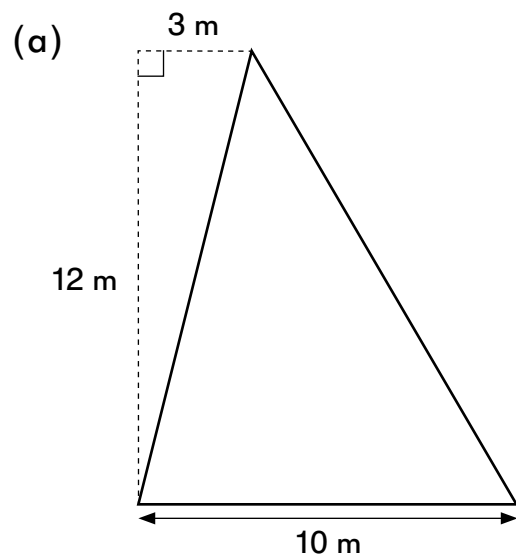
(c) $7 \text{ kg } 1 \text{ g} = \boxed{} \text{ g}$

(d) $206 \text{ cm} = \boxed{} \text{ m } \boxed{} \text{ cm}$

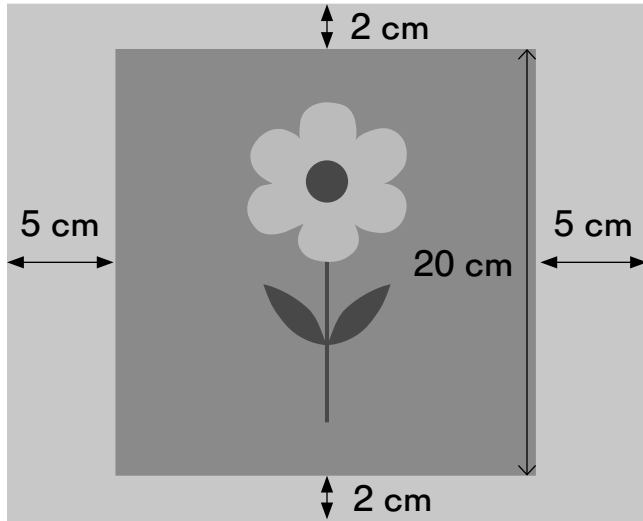
(e) $3051 \text{ ml} = \boxed{} \ell \boxed{} \text{ ml}$

(f) $2700 \text{ m} = \boxed{} \text{ km } \boxed{} \text{ m}$

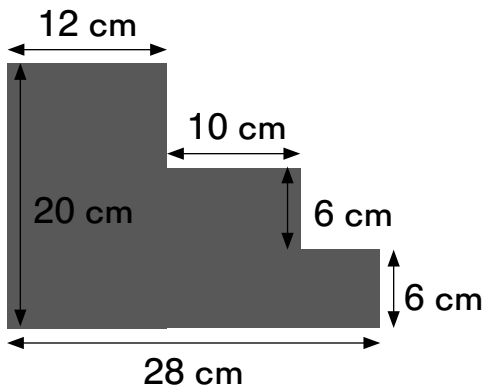
22 Find the area of each triangle.



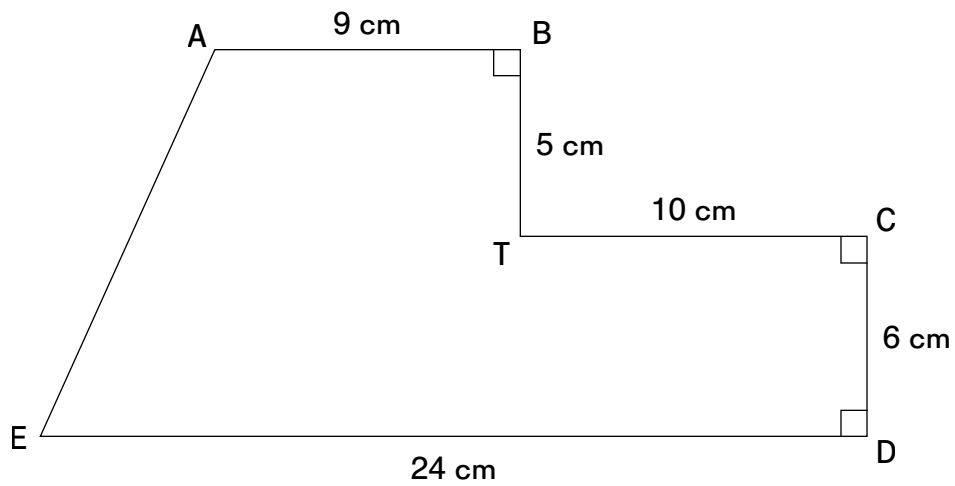
- 23** A square picture with a side of 20 cm is placed in the middle of a rectangular picture frame. What is the area of the border around the picture?



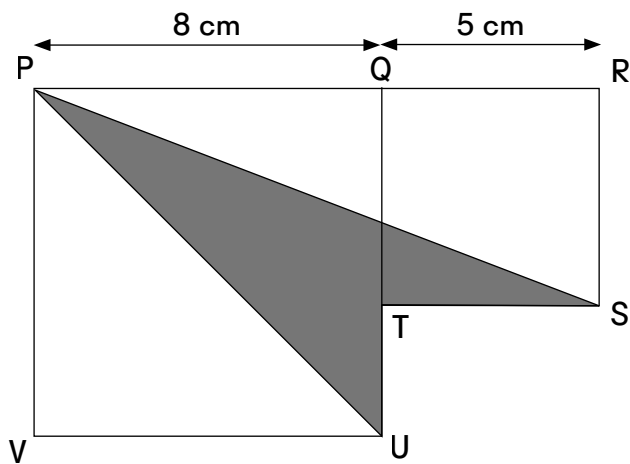
- 24** Find the area and perimeter of the figure.



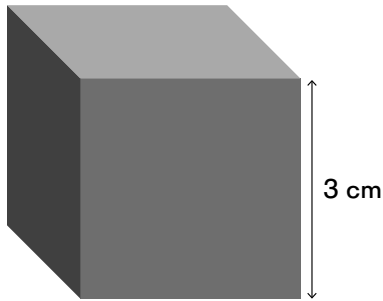
- 25** Find the area of Figure ABCDE.



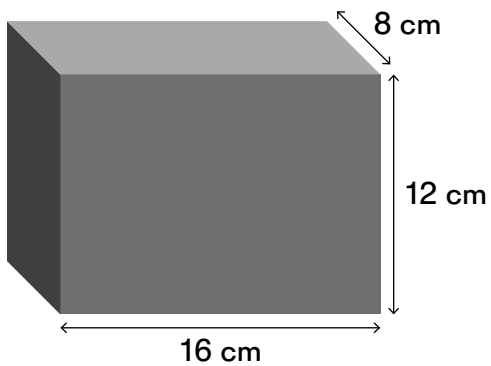
- 26** PQUV and QRST are squares.
Find the area of the shaded part.



- 27 Find the volume of the cube.



- 28 Find the volume of the cuboid.



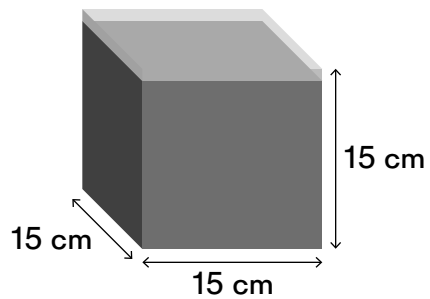
- 29 Convert the following.

(a) $8 \ell = \boxed{} \text{ cm}^3$

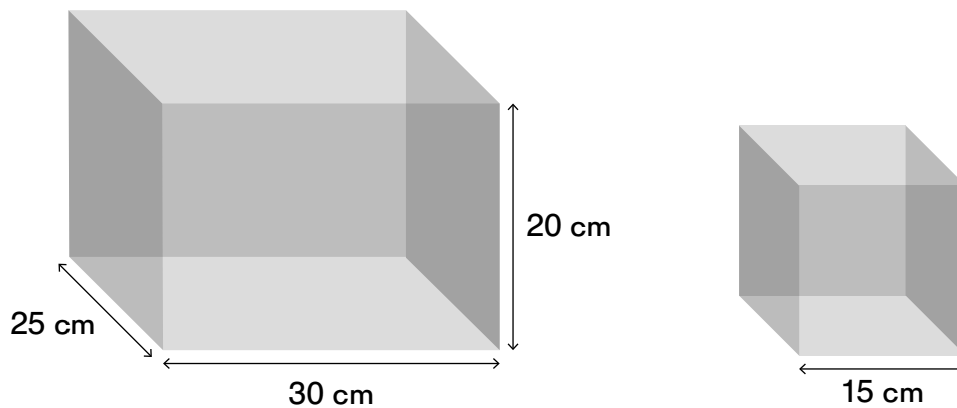
(b) $68 \text{ cm}^3 = \boxed{} \text{ ml}$

(c) $2318 \text{ cm}^3 = \boxed{} \ell \boxed{} \text{ ml}$

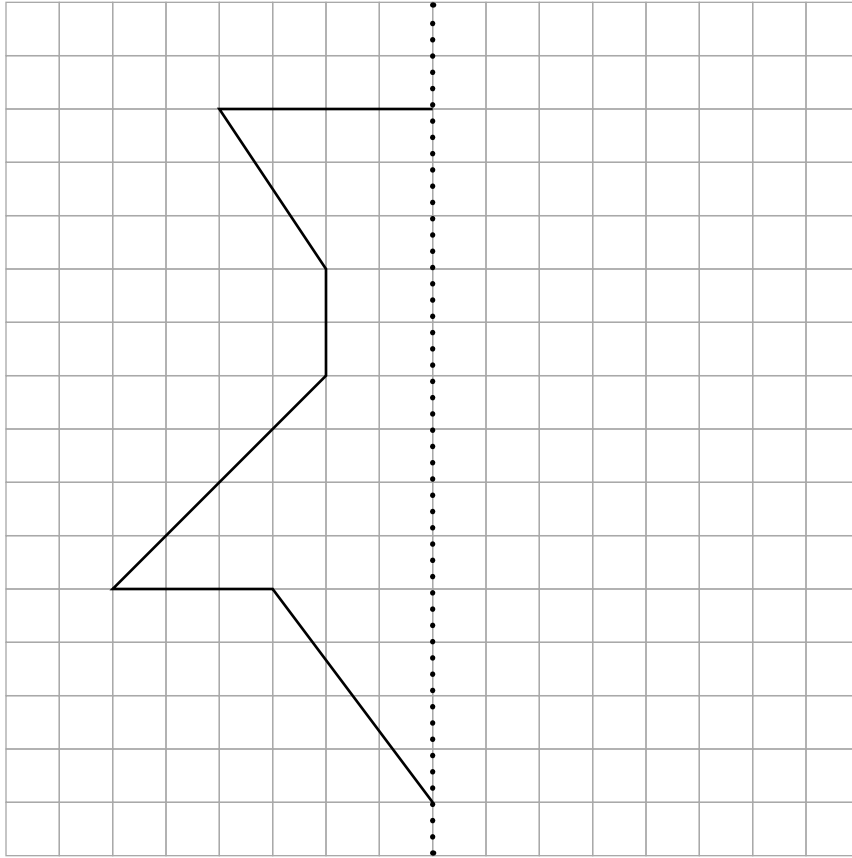
- 30** A cube-shaped container measures 15 cm by 15 cm by 15 cm.
It is filled with 3 L of water.
How many more milliliters of water is needed for the container to be completely full?



- 31** A rectangular tank measuring 30 cm by 25 cm by 20 cm is $\frac{3}{4}$ filled with water.
Some of the water is then poured into a cubical tank with sides of 15 cm to fill it up.
What is the volume of the water in liters and milliliters that is left in the rectangular tank?



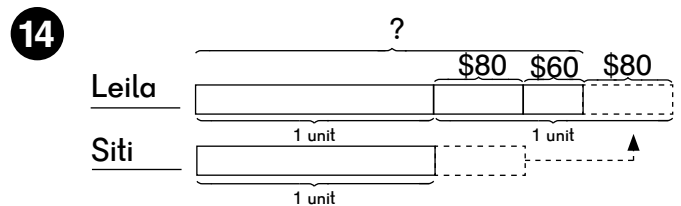
- 32 Complete the figure so that the dotted line is a line of symmetry.



Answer Key

- 1** (a) 8
- 2** (a) 842 605
(b) 300 030
(c) 6 407 019
- 3** (a) 2 809 500
(b) 10 000
(c) 5 700 000
- 4** 5 864 321
- 5** (a) 3 551 000
(b) 500 000
(c) 310
(d) 8000
(e) 300
(f) 280 000
- 6** (a) 52 000
(b) 1 884 000
(c) 3000
(d) 154
(e) 421 400
(f) 112
- 7** (a) 85
(b) 35
(c) 21
(d) 18

- 8** (a) 0
(b) 20
(c) 8
(d) 7
- 9** (a) $\frac{2}{3}$ (b) $\frac{2}{5}$
(c) $2\frac{3}{5}$ (d) $4\frac{1}{3}$
- 10** (a) $3\frac{1}{24}$ (b) $4\frac{1}{6}$
(c) $2\frac{1}{2}$ (d) $1\frac{4}{5}$
- 11** $9\frac{13}{20}$
- 12** (a) $4\frac{4}{5}$ (b) $9\frac{1}{3}$
(c) $\frac{1}{3}$ (d) $1\frac{1}{3}$
(e) $2\frac{2}{3}$ (f) $7\frac{1}{3}$
- 13** $14\frac{2}{5}$



1 unit = \$60 + \$80 + \$80 = \$220
 \$220 + \$80 + \$60 = \$360
 Leila had \$360 at first.

Answer Key

15 \$72.20

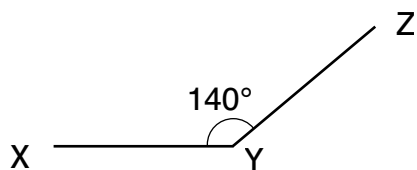
16 18 cookies

17 32 children

18

	Size	Type
$\angle ABC$	35°	Acute
$\angle BCA$	55°	Acute
$\angle CAB$	90°	Right

19 (a)



(b) obtuse

20 21°

- 21 (a) 4088 ml
 (b) 210 cm
 (c) 7001 g
 (d) 2 m 6 cm
 (e) 3 l 51 ml
 (f) 2 km 700 m

22 (a) 60 m^2 (b) 8 cm^2

23 320 cm^2

24 Area = 396 cm^2
 Perimeter = 96 cm

25 $186\frac{1}{2} \text{ cm}^2$

26 $24\frac{1}{2} \text{ cm}^2$

27 27 cm^3

28 1536 cm^3

29 (a) 8000 cm^3
 (b) 68 ml
 (c) 2 l 318 ml

30 375 ml

31 7 l 875 ml

32

