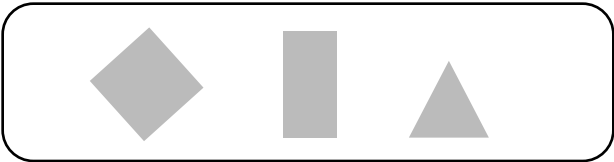
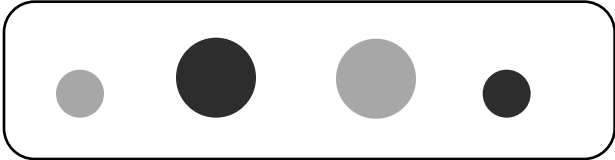
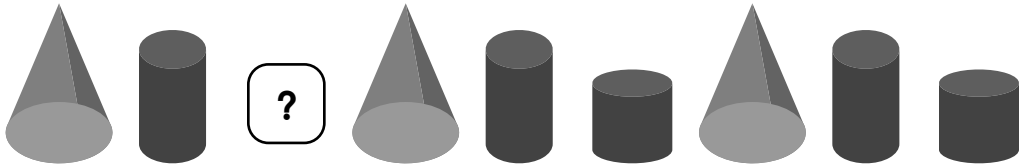
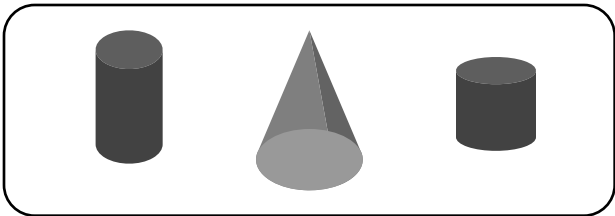


This test covers material students should know before starting Primary Mathematics SIE 3B.

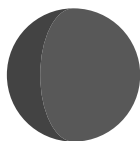
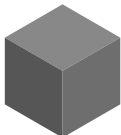
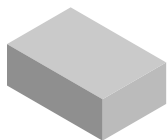
1 Circle the missing shape in each pattern.

(a)  

(b)  

(c)  

2 Match.



sphere

cylinder

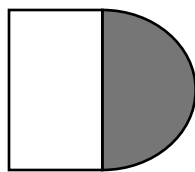
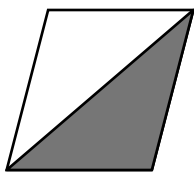
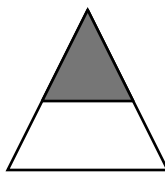
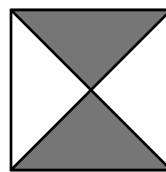
cuboid

cone

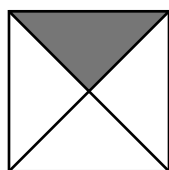
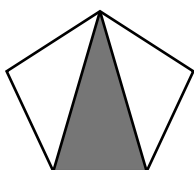
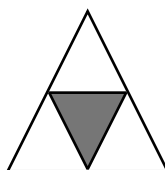
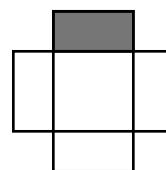
cube

- 3** (a) A cube has flat faces.
- (b) A cube has vertices.
- (c) A cuboid has edges.
- (d) A cylinder has curved face.
- (e) A cone has flat face.
- (f) A sphere has vertices.
- (g) A cylinder has flat faces.

4 Tick (✓) the figures that are $\frac{1}{2}$ shaded.

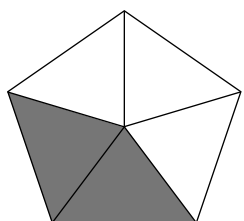

☐

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5 Tick (✓) the figures that are $\frac{1}{4}$ shaded.

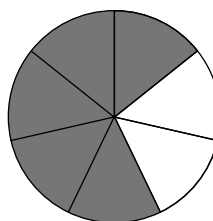

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6 What fraction of each shape is shaded?

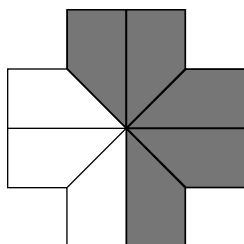
(a)



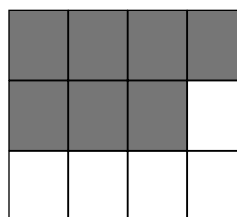
(b)



(c)



(d)



7 Fill in the boxes.

(a) fourths make 1 half.

(b) $\frac{3}{8}$ and make 1 whole.

(c) $\frac{1}{6}$ and make 1 whole.

(d) 1 whole = $\frac{9}{\text{$ }

(e) 1 whole = $\frac{\text{$ }{16}

8 Arrange the fractions in order, beginning with the greatest.

$\frac{2}{7}$, $\frac{7}{7}$, $\frac{5}{7}$

$\frac{\text{$ }{\text{}, $\frac{\text{$ }{\text{}, $\frac{\text{$ }{\text{},

9 Arrange the fractions in order, beginning with the smallest.

$\frac{1}{3}$, $\frac{1}{9}$, $\frac{1}{4}$

$\frac{\text{$ }{\text{}, $\frac{\text{$ }{\text{}, $\frac{\text{$ }{\text{},

10 Fill in the boxes.

$$(a) \frac{5}{9} + \frac{2}{9} = \frac{\boxed{}}{\boxed{}}$$

$$(b) \frac{3}{11} + \frac{5}{11} = \frac{\boxed{}}{\boxed{}}$$

$$(c) \frac{\boxed{}}{\boxed{}} + \frac{2}{7} = \frac{5}{7}$$

$$(d) \frac{6}{8} + \frac{\boxed{}}{\boxed{}} = 1$$

$$(e) \frac{4}{5} - \frac{2}{5} = \frac{\boxed{}}{\boxed{}}$$

$$(f) \frac{10}{12} - \frac{5}{12} = \frac{\boxed{}}{\boxed{}}$$

$$(g) \frac{\boxed{}}{\boxed{}} - \frac{1}{5} = \frac{3}{5}$$

$$(h) 1 - \frac{7}{10} = \frac{\boxed{}}{\boxed{}}$$

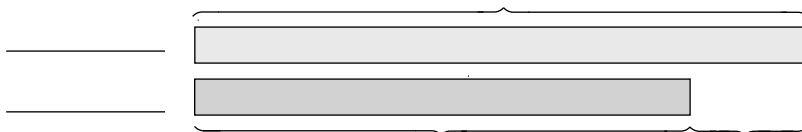
11 The length of 1 metre is the same as centimetres.

12 Circle True or False.

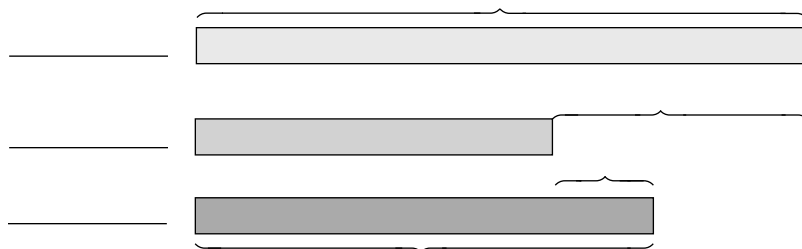
- | | | |
|---|------|-------|
| (a) A sofa is about 2 metres long. | True | False |
| (b) 1 litre of water can fill about 60 water glasses. | True | False |
| (c) A fingernail is about 5 centimetres long. | True | False |
| (d) 5 paperclips have a mass of about 5 grams. | True | False |
| (e) A horse could have a mass of 480 kilograms. | True | False |
| (f) A car could be about 200 metres long. | True | False |

- 13** Label the models, using a question mark to show the value you need to find, write the equations you use to solve the problem, and write an answer sentence.

- (a) Road A is 827 m long.
It is 132 m longer than Road B.
How long is Road B?



- (b) Container A has 60 ℓ of water.
Container B has 25 ℓ less water than Container A.
Container C has 15 ℓ more water than Container B.
How many litres of water are there in Container C?



- 14** Mr Chan buys 8 bags of rice.
Each bag of rice has a mass of 4 kg.
What is the total mass of the 8 bags of rice?

The total mass is kg.

- 15** A box of mooncakes weighs 3 kg.
Jill has 24 kg of mooncakes.
How many boxes of mooncakes does she have?

She has boxes of mooncakes.

- 16** Gopal prepared 30 ℓ of fruit punch for a party.
He poured the fruit punch equally into 5 containers.
How many litres of fruit punch are in each container?

Each container has ℓ of fruit punch.

17 (a) $1955 + 2125 =$

(b) $8524 - 35 =$

(c) $2865 + 6337 =$

(d) $2920 - 2195 =$

(e) $85 + 5168 =$

(f) $4000 - 1234 =$

- 18 Manaslu, a mountain in the Himalayas, is 8,169 m high.
Himalchuli, also in the Himalayas, is 7,893 m high.
How much higher is Manaslu than Himalchuli?

Manaslu is m higher than Himalchuli.

19 (a) $6 \times 6 =$

(c) $7 \times 8 =$

(e) $8 \times 6 =$

(b) $8 \times 9 =$

(d) $8 \times 8 =$

(f) $9 \times 7 =$

20 (a) $42 \div 6 =$

(c) $49 \div 7 =$

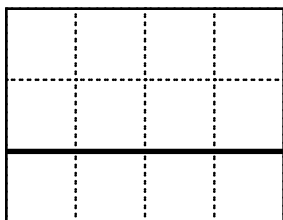
(e) $56 \div 8 =$

(b) $54 \div 6 =$

(d) $81 \div 9 =$

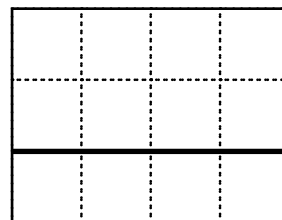
(f) $32 \div 8 =$

21 (a) $12 \times 5 =$



(c) 3×18

(b) $14 \times 7 =$



(d) $61 \times 8 =$

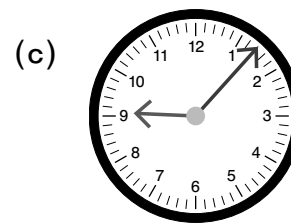
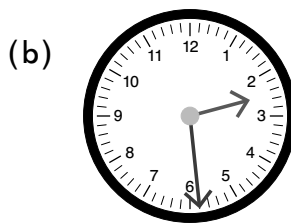
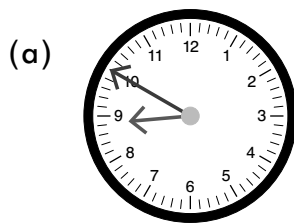
22 (a) 1 h 30 min = min

(b) 3 h 12 min = min

(c) 70 min = h min

(d) 134 min = h min

23 Write the time.



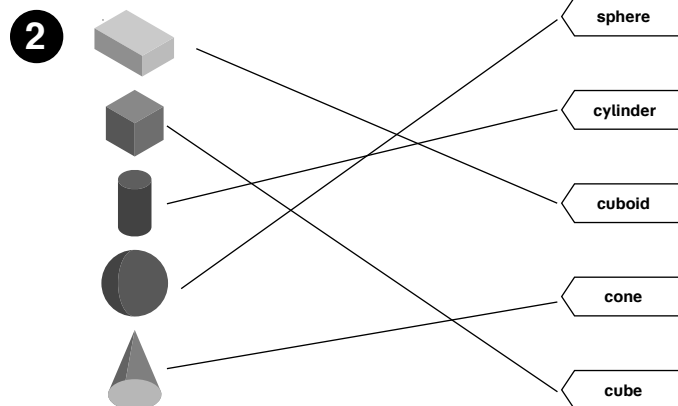
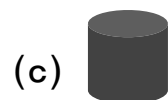
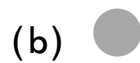
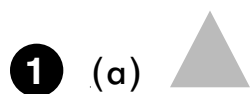
24 Siti started practicing at 9:40 am.
She finished at 11:32 am.
How long did she practice?

She practiced for h min.

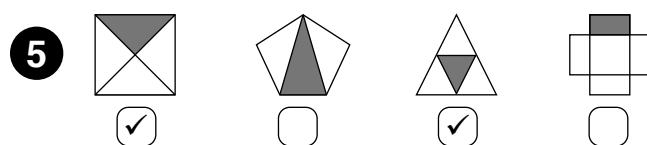
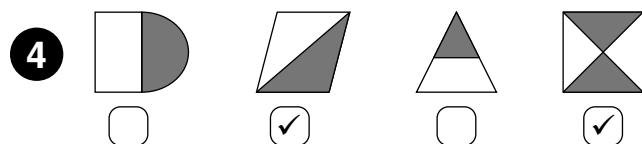
25 Leila fell asleep at 9:45 pm.
She woke up at 6:20 am.
How long was she asleep?

Leila was asleep for h min.

Answer Key



- 3** (a) 6
 (b) 8
 (c) 12
 (d) 1
 (e) 1
 (f) 0
 (g) 2



6 (a) $\frac{2}{5}$ (b) $\frac{5}{7}$

(c) $\frac{5}{8}$ (d) $\frac{7}{12}$

7 (a) 2
 (b) $\frac{5}{8}$

(c) $\frac{5}{6}$

(d) $\frac{9}{9}$

(e) $\frac{16}{16}$

8 $\frac{7}{7}$, $\frac{5}{7}$, $\frac{2}{7}$

9 $\frac{1}{9}$, $\frac{1}{4}$, $\frac{1}{3}$

10 (a) $\frac{7}{9}$ (b) $\frac{8}{11}$

(c) $\frac{3}{7}$ (d) $\frac{2}{8}$

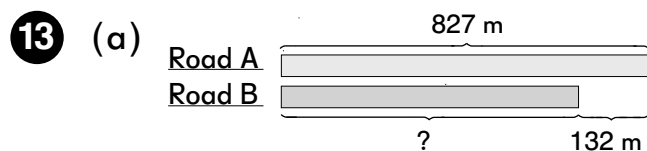
(e) $\frac{2}{5}$ (f) $\frac{5}{12}$

(g) $\frac{4}{5}$ (h) $\frac{3}{10}$

11 100

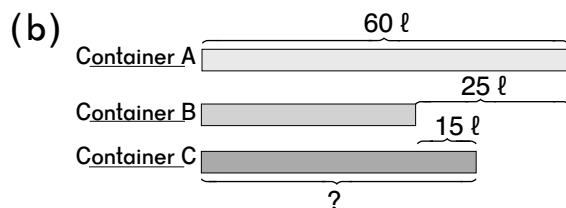
Answer Key

- 12** (a) True
 (b) False
 (c) False
 (d) True
 (e) True
 (f) False



$$827 - 132 = 695$$

Road B is 695 m long.



$$60 - 25 = 35$$

$$35 + 15 = 50$$

Container C has 50 l of water.

14 $8 \times 4 = 32$
 32

15 $24 \div 3 = 8$
 8

16 $30 \div 5 = 6$
 6

- 17** (a) 4080 (b) 8489
 (c) 9202 (d) 725
 (e) 5253 (f) 2766

18 $8169 - 7893 = 276$
 276

- 19** (a) 36 (b) 72
 (c) 56 (d) 64
 (e) 48 (f) 63

- 20** (a) 7 (b) 9
 (c) 7 (d) 9
 (e) 7 (f) 4

- 21** (a) 60 (b) 98
 (c) 54 (d) 488

- 22** (a) 90 min (b) 192 min
 (c) 1 h 10 min (d) 2 h 14 min

- 23** (a) 8:50
 (b) 2:29
 (c) 9:07

24 1 h 52 min

25 8 h 35 min