The Learning Lab

Mathematics

Primary 3 Intensive Practice

Preparing for the GEP Selection Test

Handout A

Name _____

I.D. _____ / _____

Date ____ / ____ / ____

Day _____ Time _____

Teacher _____

Section A

Choose the correct answer and write its corresponding number in the space provided.

1 Which of the following fractions is between $\frac{1}{5}$ and $\frac{3}{7}$?

(1) $\frac{1}{6}$ (smaller)

(2) $\frac{1}{7}$

(3) $\frac{2}{6}$

(4) $\frac{3}{5}$

$\frac{8}{35} =$ $\frac{9}{35} \div$

3 ✓

$\frac{1}{5} \times \frac{7}{7} = \frac{7}{35}$

$\frac{3}{7} \times \frac{5}{5} = \frac{15}{35}$

$\frac{22}{35} =$

4.20

3.30 3.50 5.00 2.50

2 1530, 1550, 1620, 1700, 1750

20 70 +80 +50

What is the next number in the series?

(1) 1760

(2) 1800

(3) 1820

(4) 1850

3

(4) ✓

3 ♣ × ✦ = odd number

♣ and ✦ are whole numbers.

Which of the following options will give an even answer?

(1) ♣ + 4

(2) ✦ × ✦

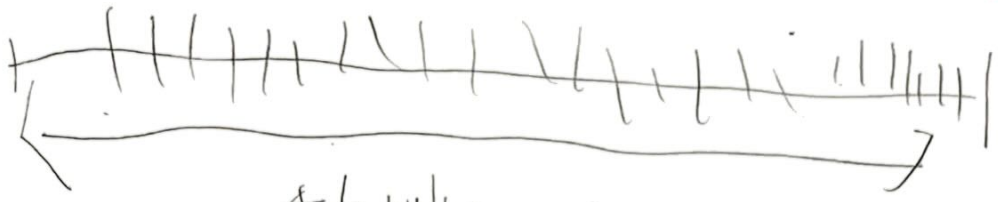
(3) ✦ − 2

(4) ♣ + ♣

4 ✓

4 A string of decorative lights has bulbs spaced 2 cm apart.
There are a total of 48 bulbs along the string, with one bulb at both ends of the string.
How long is the string?

(1) 92 cm (2) 94 cm
(3) 96 cm (4) 98 cm



46 bulbs

5 Tanya had some fifty-cent and twenty-cent coins.
She had $2.70 altogether.
Which of the following is **not** a possible number of the coins she had?

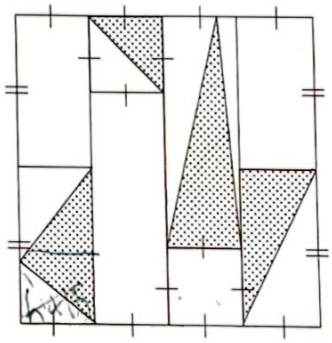
(1) 6 (2) 8
(3) 9 (4) 12

3×50=150 5×20=100

20 20

12
×20

6 Study the following diagram below.
What fraction of the entire figure is shaded?



(1) $\frac{1}{4}$ (2) $\frac{5}{16}$
(3) $\frac{5}{12}$ (4) $\frac{1}{3}$

Section B

Answer the following questions in the space provided.

1 What digit does the value of $1 + 3 + 5 + 7 + \ldots + 89$ end with?

89 + 1 = 90

40 ÷ 2 = 45

∴ 5 ✓

2 A fruit seller has to sell all his apples, oranges and mangoes to break even.
If he sells all his apples, he will need $58 more to break even.
If he sells all his oranges, he will need $62 more to break even.
If he sells all his mangoes, he will need $20 more to break even.
What is the amount of money he has to make to break even?

O + M = 58

A M = 62

A + O = 20

2X every 140

140 ÷ 2 = 70

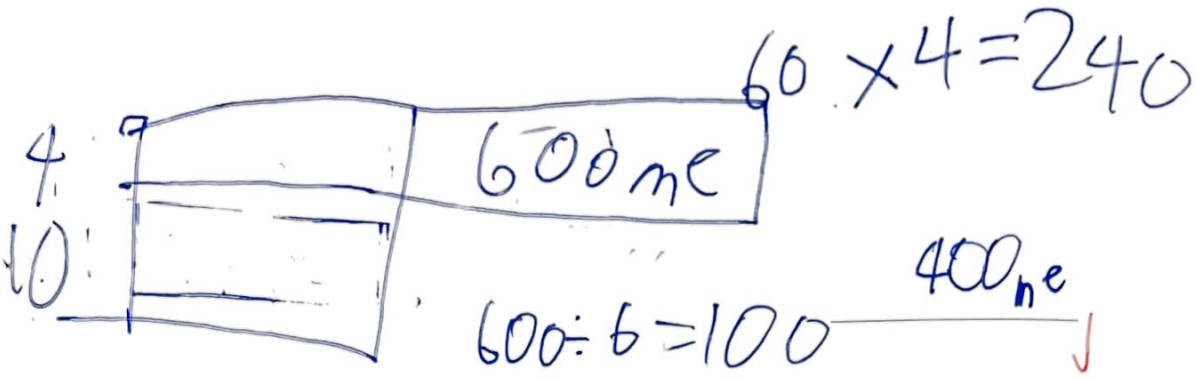
$70 ✓

3 ⌘ and ⊙ each represent a digit from 1 to 9.

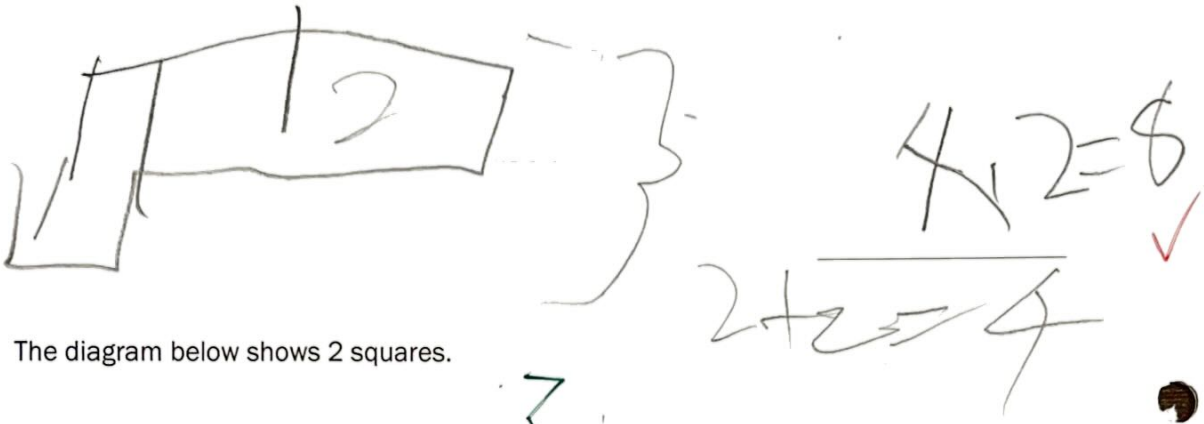
$$\frac{⌘ \times ⌘ \times ⌘}{3 \times ⊙ \times ⊙} = \frac{1}{6}$$

What is the value of $\frac{⌘}{⊙}$?

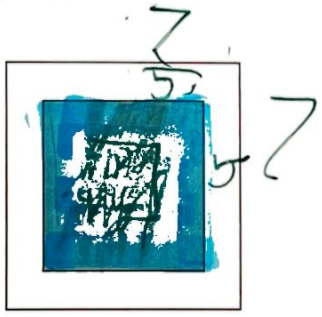
4 A jug of juice was poured equally into 4 glasses.
If it was poured equally into 10 glasses, there would be 60 mℓ less juice in each glass.
How many millilitres of juice were there in the jug?



5 Tom has 8 oranges.
Jerry has 2 bananas.
After Tom gives some oranges to Jerry, Tom has $\frac{1}{3}$ as many oranges as Jerry.
Find the total number of oranges and bananas that Jerry had in the end.



6 The diagram below shows 2 squares.



The area of the unshaded part is 24 cm².
Find the perimeter of the shaded part.

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Section A

Choose the correct answer and write its corresponding number in the space provided.

1 Which of the following fractions is **not** between $\frac{2}{7}$ and $\frac{1}{9}$?

(1) $\frac{1}{7}$ (2) $\frac{1}{8}$

(3) $\frac{3}{8}$ (4) $\frac{2}{9}$

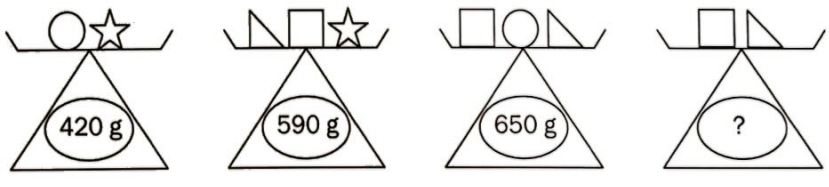
2 What are the next 2 numbers in the pattern below?

7, 2, 12, 6, 17, 10, 22, ...

(1) 13, 24 (2) 14, 27

(3) 15, 26 (4) 16, 28

3 Find the missing mass for the last weighing scale.



(1) 205 g (2) 230 g

(3) 410 g (4) 480 g

4 A, B and C stand for three different digits.

$$\begin{array}{r} A\ B\ A \\ \times\quad\ 6 \\ \hline 5\ 5\ C\ 4 \\ \hline \end{array}$$

What is the sum of A, B and C?

(1) 18 (2) 20
(3) 24 (4) 27

5 A candy machine is filled with candy of 6 different colours.
Carine buys 2 candies from the machine.
How many different combinations of candies can she possibly receive?

(1) 12 (2) 36
(3) 24 (4) 21

6 A circular park has a perimeter of 800 m.
A tree will be planted at every 20 m and a flagpole will be placed at 5 m interval between any 2 nearest trees.
How many flagpoles are there?

(1) 120 (2) 123
(3) 160 (4) 164

Section B

Answer the following questions in the space provided.

1 Edgar saved some money for a period of 15 days.
On the first day, he saved $12.
On the second day, he saved $15.
On the third day, he saved $18.
If the pattern continues, find the total amount of money Edgar saved.

12 15 18 21 24 27 30 33 36 39
42 45 48 51 54

495 ✓

2 The total amount of juice in Glass A, B and C was just enough to fill up 1 particular jug.
If only Glass A is poured into the jug, 200 mℓ more juice will be needed to fill up the jug.
If only Glass B is poured into the jug, 150 mℓ more juice will be needed to fill up the jug.
If only Glass C is poured into the jug, 170 mℓ more juice will be needed to fill up the jug.
How much juice is needed to fill up the entire jug?

$$2\overline{)520} = 260$$

260 mℓ ✓

3 ❄2 and 9 stand for 2-digit numbers.

$$\frac{❄2}{9☼} = \frac{1}{3}$$

What is the value of ❄ × ☼?

4 Kimberly attended a camp that lasted for a few days.
She returned home at 2 p.m. on Saturday.
If Kimberly had left her house 150 hours ago, what time and day did she leave home to attend the camp?

8 am Sunday

5 A rectangle has a perimeter of 64 cm.
The length and breadth of the rectangle are different whole numbers.
What is the greatest possible area of the rectangle?

255

6 In Figure A, a portion of a rectangle is shaded.
The rectangle consists of 12 identical squares.
In Figure B, the shaded portion has been shifted a little to the right.
What fraction of Figure B is shaded?

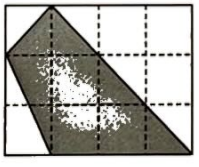


Figure A

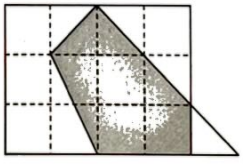


Figure B

$\frac{11}{25}$