

Term 3 | Assessment 1

Capacity | Common Fractions | Whole Numbers | Add & Subtract | Views | 2-D Shapes

Section A | Capacity

1. True or False? a) A 1,5l kettle can hold 1800ml of water.

b) $\frac{1}{2} l = 120ml$

2. Complete:

a) $5 l = \dots\dots\dots ml$

b) $\frac{1}{4} l = \dots\dots\dots ml$

c) $1 l 20 ml = \dots\dots\dots ml$

d) $3000 ml = \dots\dots\dots l$

e) $2 500 ml = \dots\dots\dots$ litres [Answer as a common fraction]

f) $2 l 250 ml + 1 l 750 ml = \dots\dots\dots l$

g) $5 l - 650 ml = \dots\dots\dots = \dots l \dots\dots ml$

3. The sum of which three blocks in the table below will equal the capacity of the bottle?

$1 l$	$350 l$	$250 l$
$\frac{3}{4} l$	$600 l$	$1 l 150 ml$



$2 l$

4. Fill in $>$, $<$ or $=$ to make correct statements.

a) $2 l$ $2500ml$

b) $1 l 60ml$ $160ml$

c) $5500ml$ $5 \frac{1}{2} l$

5. A bucket can hold $2 l$ of water when full.

There is $850ml$ of water in the bucket.

How much water is needed to fill the bucket?

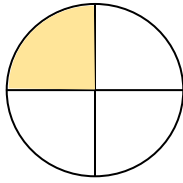
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Section B | Common Fractions

1. Complete:

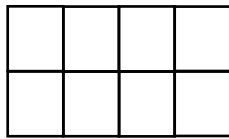


- a) The circle is divided into equal parts.
 b) The fraction of the circle that is shaded is
 c) There are halves in one whole.

2. A chocolate is shared equally among 3 friends.

What fraction of the chocolate does each friend get?

3. Shade $\frac{1}{4}$ of the rectangle.



4. Complete: a) $\frac{1}{5} + \frac{3}{5} = \dots\dots\dots$ b) $1 - \frac{2}{3} = \dots\dots\dots$ c) $\frac{7}{9} - \frac{5}{9} = \dots\dots\dots$ d) $\frac{3}{8} + \frac{5}{8} = \dots\dots\dots$

5. Fill in $>$, $<$ or $=$ between each pair of fractions to make correct statements.

- a) $\frac{3}{5}$ $\frac{4}{5}$ b) $\frac{1}{3}$ $\frac{1}{6}$ c) $\frac{7}{8}$ 1 d) $\frac{2}{4}$ $\frac{1}{2}$

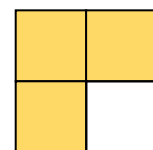
6. Circle the letter of the correct answer.

6.1 $\frac{1}{3}$ of 12 =

- A 36 B 3 C 4 D 6

6.2 The fraction of the square that is not shaded =

- A $\frac{3}{4}$ B 1 third C $\frac{1}{4}$ D $\frac{1}{3}$



6.3 3 quarters - 1 quarter =

- A $\frac{4}{2}$ B 1 quarter C $\frac{3}{4}$ D $\frac{1}{2}$

7. John cut off one third of a 15m long plank of wood.

What length of plank is left?

8. $\frac{1}{3}$ of the 60 people at an event are children, $\frac{1}{6}$ are men and the rest are women.

How many women attended the event?

.....

Section C | Whole Numbers



1. Write each of the following numbers in words.

a) 2 017:

b) 5 866:

2. Write in short form.

a) $(7 \times 100) + (6 \times 1000) + (8 \times 1) = \dots\dots\dots$

b) $(3 \times 10) + (8 \times 100) + (3 \times 1000) + (4 \times 100) = \dots\dots\dots$

3. Complete each number sequence.

a) 811 ; 791; 771 ; 751; ; ; ;

b) 5214 ; 5244 ; ; 5304 ; 5334 ; ; ; 5424 ;

4.* Which numbers below will give 1200 when rounded off to the nearest 100?

1212 1198 1292 1242 1127 1150 1251

5. Underline the a) tens digit in 5 789. b) units digit in 87. c) hundreds digit in 1 004.

6. What is the value of the underlined digit in: a) 7 253? b) 8 228?

7. Complete: a) 12 units = b) 12 tens = c) 12 hundreds =

Section D | Addition & Subtraction

1. Calculate:

a) $3\,598 + 788$

b) $2\,500 - 1\,376$

c) $25 + 3189 + 697$

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2. The sum of 25, 120 and a third number is 200.

What is the third number?

3. Complete: a) 80 is more than 55. b) 450 is less than 1000.

4. Circle the letter of the correct answer.

4.1 The difference between 120 and 87 is ...

- A 207 B 53 C 87 - 120 D 33

4.2 What is the missing number? $239 + \dots = 450$

- A 689 B 211 C 111 D 301

5. Thato has 84 marbles. He loses 18 and then another 12.

How many marbles has he left?



6. In a school there are eight hundred and fifty six learners.

How many boys are there in the school if there are 547 girls?

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7. The cupcake sales are shown in the table below.

MONTH	CUPCAKES SOLD
APRIL	1 250
MAY	600 MORE THAN JUNE
JUNE	DOUBLE THE AMOUNT OF APRIL
JULY	100 LESS THAN MAY

a) How many cupcakes were sold in June?

b) How many cupcakes were sold in April and May?

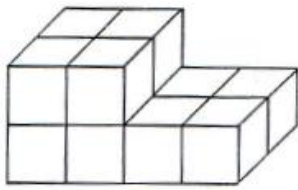
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c) How many more cupcakes were sold in July than April?

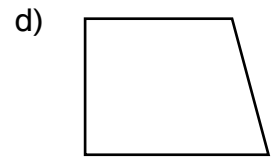
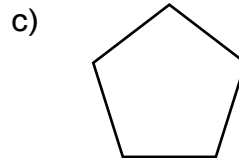
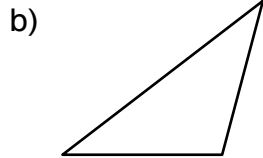
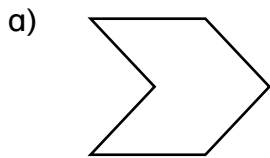
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Section E | Views and 2-D Shapes

1. Draw the view of the figure from: a) the top b) the back.



2. Name each polygon below. Which are regular polygons?

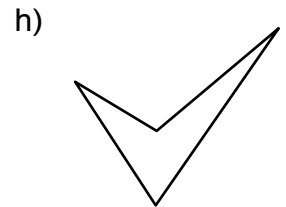
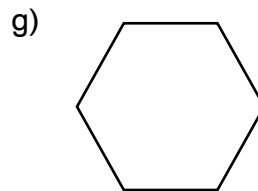
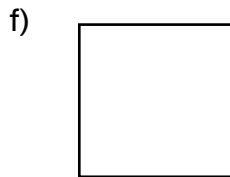
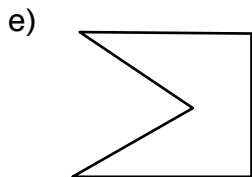


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3. A six-sided polygon is called a:

A sixagon B pentagon C hexagon D cube

4. Choose the correct word to complete each sentence.

a) A square has four sides.

equal

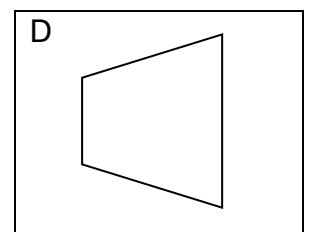
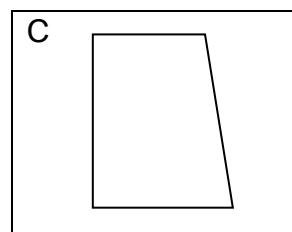
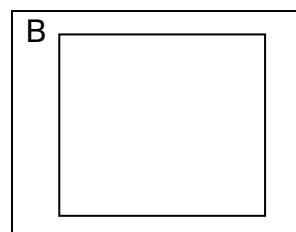
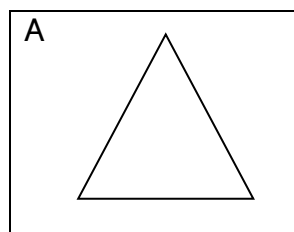
b) A rectangle has sides of equal length.

three

c) A triangle has angles.

opposite

5. Mark each square corner, where possible, in the shapes below.



6. What makes a polygon "regular".

.....

Section F | Mixed Questions

1. Complete:

a) + 9 = 24

b) 120 - = 30

c) - 40 = 83

d) 155 + = 215

2. Complete:

a) $\frac{1}{4} + \frac{1}{4} =$

b) $1 - \frac{2}{5} =$

c) $\frac{1}{3}$ of 6 =

d) $\frac{1}{4}$ of 20 =

3. Complete:

a) 7 l = ml

b) 2 l 25 ml = ml

c) $1\frac{1}{2}$ l = ml

d) $\frac{1}{4}$ l = ml

4. Four identical bottles have a total capacity of 600 ml.

a) What is the capacity of 1 bottle?

b) What is the capacity of 3 bottles?

5. Complete: a) Which fractions are equal to 1? $\frac{3}{5}$, $\frac{5}{5}$, $\frac{9}{8}$, $\frac{1}{4}$, $\frac{4}{4}$, $\frac{7}{7}$.b) Which fractions are equal to $\frac{1}{2}$? $\frac{3}{8}$, $\frac{3}{6}$, $\frac{2}{5}$, $\frac{4}{8}$, $\frac{7}{9}$.c) Which is larger? $\frac{1}{2}$ or $\frac{5}{8}$

6. There are 3852 people in a stadium watching a rugby game.

How many people, rounded off to the nearest thousand, attended the game?

7. A farmer has 370 sheep.

He bought another 265 sheep but 45 were stolen. How many sheep has he left?

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8. Maria has 23 "Power-Puff" cards fewer than Thandi. Thandi has 51 cards.

How many cards do they have altogether?

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9. Complete: a) Is a rectangle a special quadrilateral?

b) Is a triangle a special quadrilateral?

c) What is the difference between a square and a rectangle?

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d) Which has more angles, a square or a hexagon?

Term 3 | Assessment 1 **Answers**

Capacity | Common Fractions | Whole Numbers | Add & Subtract | Views | 2-D Shapes

Section A | Capacity1. True or False? a) A 1,5ℓ kettle can hold 1800ml of water. **False**b) $\frac{1}{2} \ell = 120\text{ml}$ **False** It is equal to 500 ml

2. Complete:

a) $5 \ell = 5000 \text{ ml}$

b) $\frac{1}{4} \ell = 250 \text{ ml}$

c) $1 \ell 20 \text{ ml} = 1020 \text{ ml}$

d) $3000 \text{ ml} = 3 \ell$

e) $2 \text{ 500 ml} = 2\frac{1}{2}$ litres [Answer as a common fraction]

f) $2 \ell 250 \text{ ml} + 1 \ell 750 \text{ ml} = 3 \ell 1000\text{ml} = 4 \ell$

g) $5 \ell - 650 \text{ ml} = 5000\text{ml} - 650\text{ml} = 4350\text{ml} = 4 \ell 350\text{ml}$

3. The sum of which three blocks in the table below will equal the capacity of the bottle?

1ℓ	350 ℓ	250 ℓ
$\frac{3}{4} \ell = 750\text{ml}$	600 ℓ	1ℓ 150 ml



2ℓ

4. Fill in >, < or = to make correct statements.

a) $2 \ell \begin{matrix} < \\ \text{2000ml} \end{matrix} 2500\text{ml}$

b) $1 \ell 60\text{ml} \begin{matrix} > \\ \text{1060ml} \end{matrix} 160\text{ml}$

c) $5500\text{ml} \begin{matrix} = \\ \text{5500ml} \end{matrix} 5\frac{1}{2} \ell$

5. A bucket can hold 2ℓ of water when full.

There is 850ml of water in the bucket.

How much water is needed to fill the bucket?

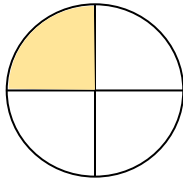
What is the difference between the two amounts?

$2000\text{ml} - 850\text{ml} = 1150\text{ml} = 1 \ell 150\text{ml}$



Section B | Common Fractions

1. Complete:

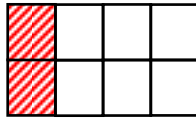


- a) The circle is divided into 4 equal parts.
 b) The fraction of the circle that is shaded is $\frac{1}{4}$.
 c) There are 4 halves in one whole.

2. A chocolate is shared equally among 3 friends.

What fraction of the chocolate does each friend get? $\text{One third} / \frac{1}{3}$

3. Shade $\frac{1}{4}$ of the rectangle.



$\frac{1}{4}$ of 8 = 2
 Any 2 of the 8 parts

4. Complete: a) $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$ b) $1 - \frac{2}{3} = \frac{1}{3}$ c) $\frac{7}{9} - \frac{5}{9} = \frac{2}{9}$ d) $\frac{3}{8} + \frac{5}{8} = \frac{8}{8} = 1$

5. Fill in $>$, $<$ or $=$ between each pair of fractions to make correct statements.

a) $\frac{3}{5} < \frac{4}{5}$ b) $\frac{1}{3} > \frac{1}{6}$ c) $\frac{7}{8} < 1$ d) $\frac{2}{4} = \frac{1}{2} = \frac{2}{4}$

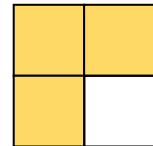
6. Circle the letter of the correct answer.

6.1 $\frac{1}{3}$ of 12 =

- A 36 B 3 **C 4** D 6

6.2 The fraction of the square that is not shaded =

- A $\frac{3}{4}$ B 1 third **C $\frac{1}{4}$** D $\frac{1}{3}$



6.3 3 quarters - 1 quarter = $2 \text{ quarters} = 1 \text{ half}$

- A $\frac{4}{2}$ B 1 quarter C $\frac{3}{4}$ **D $\frac{1}{2}$**

7. John cut off one third of a 15m long plank of wood.

What length of plank is left? $\frac{1}{3}$ of 15m = 5m is cut off $\rightarrow 15\text{m} - 5\text{m} = 10\text{m left}$

8. $\frac{1}{3}$ of the 60 people at an event are children, $\frac{1}{6}$ are men and the rest are women.

How many women attended the event?

Number of children = $\frac{1}{3}$ of 60 = 20
 Number of men = $\frac{1}{6}$ of 60 = 10
 } 30 people
 Number of women = 60 - 30 = 30

Section C | Whole Numbers



1. Write each of the following numbers in words.

c) 2 017: Two thousand and seventeen.

d) 5 866: Five thousand, eight hundred and sixty six.

2. Write in short form.

a) $(7 \times 100) + (6 \times 1000) + (8 \times 1) =$ 6 708

b) $(3 \times 10) +$ (8×100) $+ (3 \times 1000) +$ (4×100) $=$ 4 230

3. Complete each number sequence.

a) 811 ; 791 ; 771 ; 751 ; 731 ; 711 ; 691 ; 671. Rule: -2T or -20

b) 5214 ; 5244 ; 5274 ; 5304 ; 5334 ; 5364 ; 5394 ; 5424 ; 5454. Rule: +3T or +30

4.* Which numbers below will give 1200 when rounded off to the nearest 100?

1212 1198 1292 1242 1127 1150 1251

5. Underline the a) tens digit in 5 789. b) units digit in 87. c) hundreds digit in 1 004.

6. What is the value of the underlined digit in: a) 7 253? 200 b) 8 228? 20

7. Complete: a) 12 units = 12 b) 12 tens = 120 c) 12 hundreds = 1200

Section D | Addition & Subtraction

1. Calculate:

a) $3\,598 + 788$

b) $2\,500 - 1\,376$

c) $25 + 3189 + 697$

4 386

1 124

3 911

2. The sum of 25, 120 and a third number is 200.

What is the third number? $120 + 25 = 145$ and $200 - 145 = 55$ *The third number is 55.*

3. Complete: a) 80 is **25** more than 55. b) 450 is **550** less than 1000.

4. Circle the letter of the correct answer.

4.1 The difference between 120 and 87 is ...

A 207 B 53 C $87 - 120$ **D 33**

4.2 What is the missing number? $239 + \dots = 450$ $450 - 239 = 211$

A 689 **B 211** C 111 D 301

5. Thato has 84 marbles. He loses 18 and then another 12.

How many marbles has he left? $84 - 18 - 12 = 54$ or $84 - 30 = 54$



6. In a school there are eight hundred and fifty six learners.

How many boys are there in the school if there are 547 girls?

$856 - 547 = 309$ boys

7. The cupcake sales are shown in the table below.

MONTH	CUPCAKES SOLD
APRIL	1250
MAY	600 MORE THAN JUNE $(2500 + 600 = 3100)$
JUNE	DOUBLE THE AMOUNT OF APRIL $(1250 + 1250 = 2500)$
JULY	100 LESS THAN MAY $(3100 - 100 = 3000)$

a) How many cupcakes were sold in June? $1250 + 1250 = 2500$

b) How many cupcakes were sold in April and May?

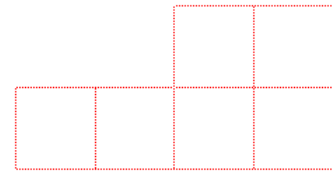
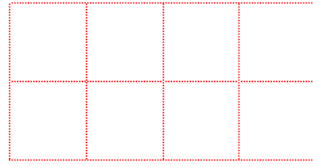
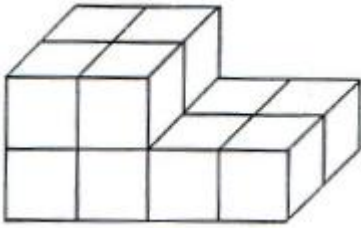
$1250 + 3100 = 4350$

c) How many more cupcakes were sold in July than April?

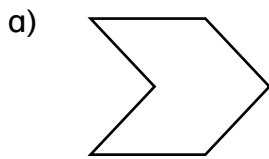
$3000 - 1250 = 1750$

Section E | Views and 2-D Shapes

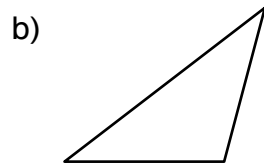
1. Draw the view of the figure from: a) the top b) the back.



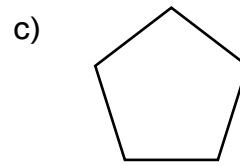
2. Name each polygon below. Which are regular polygons? **c, f and g**



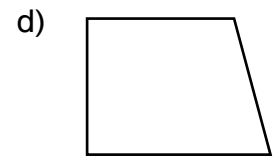
Hexagon



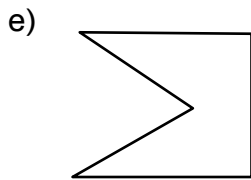
Triangle



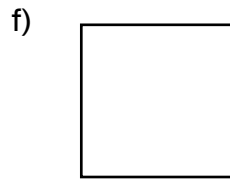
Pentagon



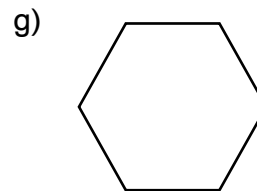
Quadrilateral



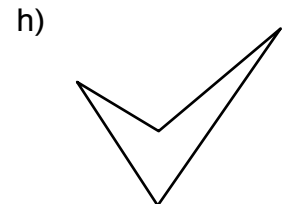
Pentagon



Square



Hexagon



Quadrilateral

3. A six-sided polygon is called a:

A sixagon B pentagon **C hexagon** D cube

4. Choose the correct word to complete each sentence.

a) A square has four **equal** sides.

equal

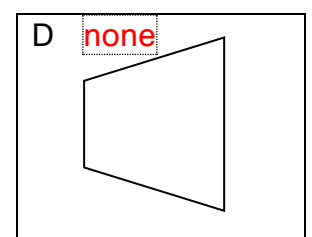
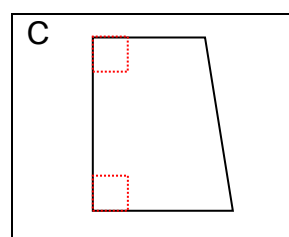
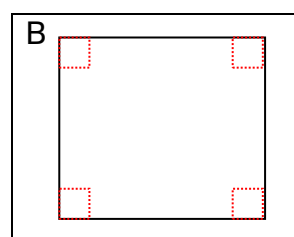
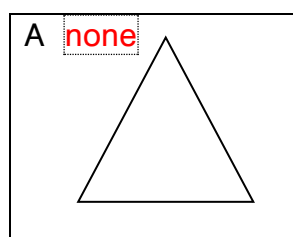
b) A rectangle has **opposite** sides of equal length.

three

c) A triangle has **three** angles.

opposite

5. Mark each square corner, where possible, in the shapes below.



6. What makes a polygon "regular".
1. All sides have the same length
 2. All angles are equal in size

Section F | Mixed Questions

1. Complete:

a) $15 + 9 = 24$

b) $120 - 90 = 30$

c) $123 - 40 = 83$

d) $155 + 60 = 215$

2. Complete:

a) $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$

b) $1 - \frac{2}{5} = \frac{3}{5}$

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

d) $\frac{1}{4}$ of 20 = 5

3. Complete:

a) $7\ell = 7000\text{ ml}$

b) $2\ell\ 25\text{ ml} = 2025\text{ ml}$

c) $1\frac{1}{2}\ell = 1500\text{ ml}$

d) $\frac{1}{4}\ell = 250\text{ ml}$

4. Four identical bottles have a total capacity of 600 ml.

a) What is the capacity of 1 bottle? $600\text{ml} \div 4 = 150\text{ml}$

b) What is the capacity of 3 bottles? $3 \times 150\text{ml} = 450\text{ml}$

5. Complete: a) Which fractions are equal to 1? $\frac{3}{5}$, $\frac{5}{5}$, $\frac{9}{8}$, $\frac{1}{4}$, $\frac{4}{4}$, $\frac{7}{7}$.b) Which fractions are equal to $\frac{1}{2}$? $\frac{3}{8}$, $\frac{3}{6}$, $\frac{2}{5}$, $\frac{4}{8}$, $\frac{7}{9}$.c) Which is larger? $\frac{1}{2}$ or $\frac{5}{8}$. $\frac{5}{8}$ because $\frac{1}{2} = \frac{4}{8}$

6. There are 3852 people in a stadium watching a rugby game.

How many people, rounded off to the nearest thousand, attended the game? 4000 people

7. A farmer has 370 sheep.

He bought another 265 sheep but 45 were stolen. How many sheep has he left?

$370 + 265 = 635$ and $635 - 45 = 590$ sheep are left.

8. Maria has 23 "Power-Puff" cards fewer than Thandi. Thandi has 51 cards.

How many cards do they have altogether? Maria has $51 - 23 = 28$ cards.

Together they have $28 + 51 = 79$ cards.

9. Complete: a) Is a rectangle a *special* quadrilateral? Yes, it has 4 sides.b) Is a triangle a *special* quadrilateral? No, it has 3 sides and "quad" means "4".

c) What is the difference between a square and a rectangle?

A square has four equal sides, a rectangles does not.

d) Which has more angles, a square or a hexagon? Hexagon - 6 (Square has 4)

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