Term 3 │ Assessment 1

Common Fractions | Mass | Whole Numbers | Additon & Subtraction | Views

Section A │ Common Fractions

1. Complete to write equivalent fractions.
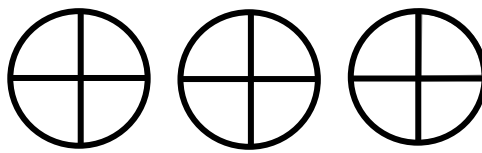
   a) $\dfrac{1}{3} = \dfrac{\Box}{9}$ b) $\dfrac{\Box}{10} = \dfrac{1}{5}$ c) $\dfrac{3}{4} = \dfrac{\Box}{12}$ d) $\dfrac{2}{3} = \dfrac{\Box}{12}$ e) $\dfrac{\Box}{12} = \dfrac{5}{6}$

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

   a) $\dfrac{1}{3}$ $\Box$ $\dfrac{1}{4}$ b) $\dfrac{5}{7}$ $\Box$ $\dfrac{6}{7}$ c) $\dfrac{1}{4}$ $\Box$ $\dfrac{3}{8}$ d) $\dfrac{7}{12}$ $\Box$ $\dfrac{3}{4}$

3. Complete:

   a) Shade 2¼ circles.

   b) How many quarters are there in 2¼? ………………………………………………………………

4. Write each improper fraction as a mixed number.

   a) $\dfrac{4}{3} =$ ………   b) $\dfrac{17}{5} =$ ………   c) $\dfrac{18}{7} =$ ………   d) $\dfrac{33}{5} =$ ………   e) $\dfrac{50}{8} =$ ………

5. Complete.   a) $5\dfrac{1}{3} + 9\dfrac{1}{3} =$ …………………   b) $2\dfrac{5}{9} + 1\dfrac{8}{9} =$ …………………………

   c) $2\dfrac{1}{3} - 1\dfrac{2}{3} =$ …………………   d) $5 - 3\dfrac{3}{4} =$ ……………………………

6. Complete: $5\dfrac{1}{4}$ $\xrightarrow{-\frac{1}{4}}$ ……… $\xrightarrow{-\frac{1}{4}}$ ……… $\xrightarrow{-\frac{1}{4}}$ ……… $\xrightarrow{-\frac{1}{4}}$ ……… $\xrightarrow{-\frac{1}{4}}$ ………

7. Ally runs $4\dfrac{3}{5}$ km and Shaun runs $5\dfrac{4}{5}$ km.
   How much further does Shaun run than Ally? ………………………………………………………………

8. Complete: a) $\dfrac{1}{8}$ of 24 = …………   b) $\dfrac{2}{5}$ of 40 = …………   c) $\dfrac{2}{3}$ of 45 = …………

9.   Henry's mass is 72kg. His younger sister Janie weighs two third as much as he does.

   What is Janie's mass? …………………………………………………………………………………………

Section B | Mass

1. Circle the correct answer in each.

   a)   An egg has a mass of: 6g   60g   600g   6kg

   b)   8 kg 80 g =   88 g   880 g   8080 g   80080 g

   c)   5 kg 6 g =   56 g   506 g   560 g   5006 g

   d)   ¾ kg =   34 g   340 g   750 g   2500 g

   e)   2,5 kg =   25 g   250 g   2005 g   2500 g

2. Which of the following is heavier?

   a) 1 cup of sawdust or 1 cup of stones.   b)   1kg of leaves or 1kg of stones.

   ………………………………….   ………………………………….

3. Complete.

a)   275g + 0,5kg   b)   2kg − 450g   c)   4kg 200g ÷ 7   d)   1,5kg × 3

   = ……………….   = ……………….   = ……………….   = ……………….

   = ……………….   = ……………….   = ……………….   = ……………….kg

4. The mass of 4 apples is 480g.   a) The mass of 1 apple = …………………………………

                                      b) The mass of 5 apples = …………………………………

5. Mrs Jones goes grocery shopping. She buys the following items.

Potatoes $1\frac{1}{2}$ kg	Bread 800g	Cheese $\frac{1}{2}$ kg
Tomatoes 1kg 200 g	Onions $1\frac{1}{4}$ kg	Meat 4kg

   a)   What is the heaviest item? ……………………………….

   b)   What is the lightest item? ……………………………….

   c)   What is the mass of the tomatoes & the potatoes in grams? ………………………………….

   d)   What is the mass of the bread & the onions in grams? ………………………………….

   e)   What is the mass of her entire shopping bag in kilograms? [Answer in fraction form]

   ………………………………………………………………………………………….

Section C │ Whole Numbers

1. Six hundred and fifty nine thousand, one hundred and forty-two is written ………………… .

2. Complete: a) $4 + 800 + 200\ 000 + 700 =$ ………………………………

              b) $59\ 865 + 4\ 000 \ =$ …………………………….

3. Underline the correct digit in each:

    a)   248   Units   b)   3 190   Hundreds   d)   257 369   Ten Thousands

4. The sum of the values of the underlined digits in 762 982 = ………………………………… .

5. Complete: a) 13 thousands = ……………………………

             b) 250 hundreds + 8 tens = ……………………………

6. Complete the sequence:

    253 589 ; 273 589 ; …………… ; …………… ; 333 589 ; …………… .   Rule: ……………

7. The biggest number that can be written with six different digits is ………………………… .

8. In the number 32 831: The value of the digit 3 on the left is …………… times the
                       value of the digit 3 on the right.

9. Complete: 17 523 ≈ ………………… correct to the nearest 5.

             ≈ ………………… correct to the nearest 10.

             ≈ ………………… correct to the nearest 100.

             ≈ ………………… correct to the nearest 1000.

10. Are the following statements correct or incorrect?
    Give an example to motivate your answer.

   a) *If an odd number is added to an even number the answer will be an odd number.*

     …………………   ……………………………………………………………………………

   b) *The product of any even number and any odd number will be an odd number.*

     …………………   ……………………………………………………………………………

Section D | Additon & Subtraction

1. Calculate:

   a)   523 589 + 87 265   b)   350 000 − 12 870   c)   301 289 + 9 215 + 45 897

2. The population of a certain town is 72 681 of which 34 876 are males.

   How many females are there in the town? ………………………………………………………

3. A farmer had five thousand eight hundred sheep.

   Calculate how many he had left after he sold 3289 and 654 had been stolen.

   ………

4. Write a number sentence for each of the following and then find the answer.

   a) *The sum of eight-hundred-and-seven thousand and 13-thousand is equal to*

   ………

   b) *R125 875,00 is R* _____ *more than R95 875,00.*

   ………

5. Calculate the difference between 625 and the number formed by reversing the digits.

   ………

6. Three consecutive numbers add up to 165. What are the numbers? ………………………

Section E | Views

1. Complete the table for the object:
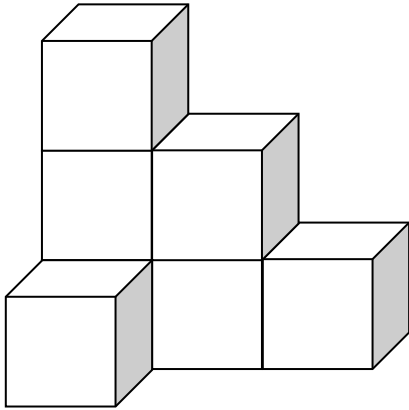
Front view	
Top view	

Section F | Mixed Questions

1. Complete:

a) .... + 90 = 240

b) 1200 – .... = 300

c) .... – 56 = 83

d) 8950 + ... = 9150

2. Complete:

a) $1\frac{2}{3} + 2\frac{2}{3} =$ ....

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

c) $\frac{1}{3}$ of 120 = ...

d) $\frac{3}{4}$ of 96 = ...

3. Complete:

a) 7kg = ... g

b) 2kg 5g = ... g

c) $1\frac{3}{10}$ kg = ... g

d) $15\frac{1}{4}$ kg = ... g

4. Complete: a) 6 889 ≈ .... correct to the nearest 10.

b) 319 543 ≈ .... correct to the nearest 1000.

5. Insert $>$, $<$ or $=$ to make true statements.

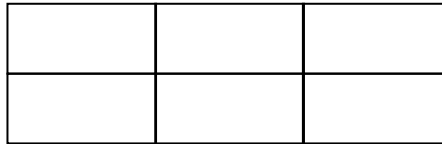   a) 3×100 ☐ $3 \times 10 \times 10 \times 10$ b) $\frac{1}{2}$ of 1000 ☐ 5×100

   c)   17 hundreds ☐ 170   d)   2070g ☐ 2kg + $\frac{7}{10}$ kg

   e)   3 sixths ☐ 5 eighths   d)   7T + 5U + 8T ☐ 155

6. Add 6428 to the odd number which comes immediately after 7599.

   ....

7. Shade two thirds of the rectangle.

8. How many packets, each holding 250g of flour, can be filled from a large

   bag containing 2kg of flour. ....

9. Four kilograms of mince cost R360.

   What is its price per kilogram? ....

10. Ouma pours $1\frac{1}{2}$ litres of juice from a 5-litre box of juice.

   How much juice is left in the box? ....

11. In 7640 there are _____ tens.

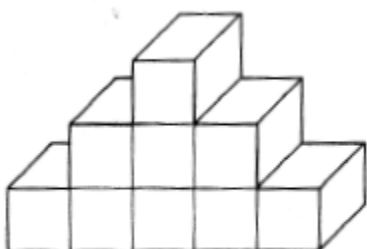   A   4   B   64   C   640   D   764

12. Draw the view of the 3-D figure from: a) the top   b) the back.

Term 3 │ Assessment 1 │ Answers

Common Fractions │ Mass │ Whole Numbers │ Additon & Subtraction │ Views

Section A │ Common Fractions
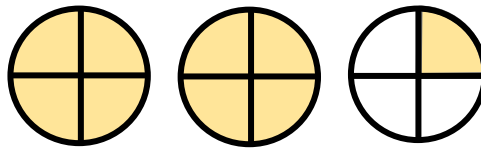
1. Complete to write equivalent fractions.

   a) $\dfrac{1}{3} = \dfrac{\boxed{3}}{9}$ b) $\dfrac{\boxed{2}}{10} = \dfrac{1}{5}$ c) $\dfrac{3}{4} = \dfrac{\boxed{9}}{12}$ d) $\dfrac{2}{3} = \dfrac{\boxed{8}}{12}$ e) $\dfrac{\boxed{10}}{12} = \dfrac{5}{6}$

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

   a) $\dfrac{1}{3}\ \boxed{>}\ \dfrac{1}{4}$ b) $\dfrac{5}{7}\ \boxed{<}\ \dfrac{6}{7}$ c) $\boxed{\dfrac{2}{8} = \dfrac{1}{4}}\ \boxed{<}\ \dfrac{3}{8}$ d) $\dfrac{7}{12}\ \boxed{<}\ \dfrac{3}{4}\boxed{=\dfrac{9}{12}}$

3. Complete:

   a) Shade 2¼ circles.

   b) How many quarters are there in 2¼? $\boxed{\text{9 quarters}}$ $[\,2\tfrac{1}{4} = \tfrac{9}{4}\,]$

4. Write each improper fraction as a mixed number.

   a) $\dfrac{4}{3} = \boxed{1\tfrac{1}{3}}$ b) $\dfrac{17}{5} = \boxed{3\tfrac{2}{5}}$ c) $\dfrac{18}{7} = \boxed{2\tfrac{4}{7}}$ d) $\dfrac{33}{5} = \boxed{6\tfrac{3}{5}}$ e) $\dfrac{50}{8} = \boxed{6\tfrac{2}{8}}$

5. Complete.   a) $5\tfrac{1}{3} + 9\tfrac{1}{3} = \boxed{14\tfrac{2}{3}}$ b) $2\tfrac{5}{9} + 1\tfrac{8}{9} = \boxed{3\tfrac{13}{9} = 4\tfrac{4}{9}}$

   c) $2\tfrac{1}{3} - 1\tfrac{2}{3} = \boxed{1\tfrac{4}{3} - 1\tfrac{2}{3} = \tfrac{2}{3}}$ d) $5 - 3\tfrac{3}{4} = \boxed{1\tfrac{1}{4}}$ check $1\tfrac{1}{4} + 3\tfrac{3}{4} = 4\tfrac{4}{4} = 5$

6. Complete: $5\dfrac{1}{4}\ \xrightarrow{-\tfrac{1}{4}}\ \boxed{5}\ \xrightarrow{-\tfrac{1}{4}}\ \boxed{4\tfrac{3}{4}}\ \xrightarrow{-\tfrac{1}{4}}\ \boxed{4\tfrac{2}{4}}\ \xrightarrow{-\tfrac{1}{4}}\ \boxed{4\tfrac{1}{4}}\ \xrightarrow{-\tfrac{1}{4}}\ \boxed{4}$

7. Ally runs $4\tfrac{3}{5}$ km and Shaun runs $5\tfrac{4}{5}$ km.

   How much further does Shaun run than Ally? $\boxed{5\tfrac{4}{5}\text{km} - 4\tfrac{3}{5}\text{km} = 1\tfrac{1}{3}\text{km further}}$

8. Complete: a) $\tfrac{1}{8}$ of $24 = \boxed{3}$ b) $\tfrac{2}{5}$ of $40 = \boxed{16}$ c) $\tfrac{2}{3}$ of $45 = \boxed{30}$

9. Henry's mass is 72kg. His younger sister, Janie, weighs two third as much as he does.
   What is Janie's mass? $\boxed{\text{Janie's mass} = \tfrac{2}{3} \text{ of } 72\text{kg} = 2 \times 24\text{kg} = 48\text{kg}}$

Section B │ Mass

1. Circle the correct answer in each.

    a)   An egg has a mass of: 6g   60g   600g   6kg

    b)   8 kg 80 g =   88 g   880 g   8080 g   80080 g

    c)   5 kg 6 g =   56 g   506 g   560 g   5006 g

    d)   ¾ kg =   34 g   340 g   750 g   2500 g

    e)   2,5 kg =   25 g   250 g   2005 g   2500 g

2. Which of the following is heavier?

    a)   1 <u>cup</u> of sawdust or 1 <u>cup</u> of stones.   b)   1kg of leaves or 1kg of stones.
       [Stones are heavier than sawdust]   **Neither** (both weigh 1kg)

3. Complete.

    a)   275g + 0,5kg   b)   2kg − 450g   c)   4kg 200g ÷ 7   d)   1,5kg × 3

      = 275g + 500g   = 2000g − 450g   = 4200g ÷ 7   = 1500g × 3

      = 775g   = 1550g   = 600g   = 4½ kg ^{or 4,5kg}

4. The mass of 4 apples is 480g.   a)   The mass of 1 apple = 480g ÷ 4 = 120g

                                    b)   The mass of 5 apples = 120g × 5 = 600g

5. Mrs Jones goes grocery shopping. She buys the following items.

Potatoes $1\frac{1}{2}$ kg	Bread 800g	Cheese $\frac{1}{2}$ kg
Tomatoes 1kg 200 g	Onions $1\frac{1}{4}$ kg	Meat 4kg

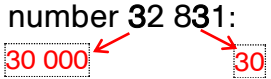   2700 g   2050 g   4500 g

    a)   What is the heaviest item? The meat.

    b)   What is the lightest item? The bread.

    c)   What is the mass of the tomatoes & the potatoes in grams? 1500g + 1200g = 2700g

    d)   What is the mass of the bread & the onions in grams? 800g + 1250g = 2050g

    e)   What is the mass of her entire shopping bag in kilograms? [Answer in fraction form]

              2700g + 2050g + 4500g   ← *Adding 2 items together at a time, as above*

              = 9250 g = $9\frac{1}{4}$ kg

Section C │ Whole Numbers

1. Six hundred and fifty nine **thousand**, one hundred and forty-two is written 659 142.

2. Complete: a) 4 + 800 + 200 000 + 700 = 201 504

    b) 59 865 + 4 000 = 63 865   Say: "59Th + 4Th = 63Th" → answer is 63 865

3. Underline the correct digit in each:

    a) 24<u>8</u>   Units   b) 3 <u>1</u>90   Hundreds   d) 2<u>5</u>7 369   Ten Thousands

4. The sum of the values of the underlined digits in 7<u>6</u>2 9<u>8</u>2 = 60 000 + 80 = 60 080.

5. Complete: a) 13 thousands = 13 000

    b) 250 hundreds + 8 tens = 25 000 + 80 = 25 080

6. Complete the sequence:

    2<u>5</u>3 589 ; 2<u>7</u>3 589 ; 293 589 ; 313 589 ; 3<u>3</u>3 589 ; 353 589.   Rule: +20 000

7. The biggest number that can be written with six different digits is 987 654.

8.   In the number 32 831:   The value of the digit 3 on the left is 1000 times the
        30 000   30   value of the digit 3 on the right.

9. Complete: 17 523 ≈ 17 525 correct to the nearest 5.

                ≈ 17 520 correct to the nearest 10.

                ≈ 17 500 correct to the nearest 100.

                ≈ 18 000 correct to the nearest 1000.

10. Are the following statements correct or incorrect?
    Give an example to motivate your answer.

    a) If an odd number is added to an even number the answer will be an odd number.

        Correct.   Possible examples: 5 + 4 = 9, 9 + 8 = 17 and 13 + 14 = 27.

    b) The product of any even number and any odd number will be an odd number.

        Incorrect.   Possible examples: 5 × 4 = 20, 9 × 8 = 72 and 13 × 14 = 182.

Section D | Additon & Subtraction

1. Calculate:

a)   523 589 + 87 265   b)   350 000 − 12 870   c)   301 289 + 9 215 + 45 897

610 854   337 130   356 401

2. The population of a certain town is 72 681 of which 34 876 are males.

How many females are there in the town?   72 681 − 34 879 = 37 805 females

3. A farmer had five thousand eight hundred sheep.

Calculate how many he had left after he sold 3289 and 654 had been stolen.

5800 − 3289 − 654 = 1587 sheep left

4. Write a number sentence for each of the following and then find the answer.

b) *The sum of eight-hundred-and-seven thousand and 13-thousand is equal to*

807 000 + 13 000 = 820 000 .

b) *R125 875,00 is R**30 000* *more than R95 875,00.*

R125 875 − R95 875 = R30 000

5. Calculate the difference between 625 and the number formed by reversing the digits.
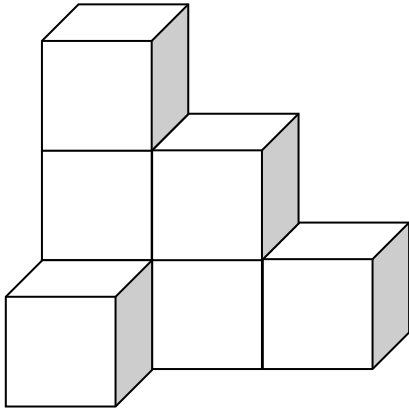
The difference between 625 and 526 = 625 − 526 = 99

6. Three consecutive numbers add up to 165. What are the numbers? 54 , 55 and 56

By trial and error: 54 + 55 + 56 = 165

Section E │ Views

1. Complete the table for the object:

Right side view	
Front view	
Back view	
Top view	

Section F │ Mixed Questions

1. Complete:

a) 150 + 90 = 240

b) 1200 – 900 = 300

c) 139 – 56 = 83

d) 8950 + 200 = 9150

2. Complete:

a) $1\frac{2}{3} + 2\frac{2}{3} = 3\frac{4}{3} = 4\frac{1}{3}$

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

c) $\frac{1}{3}$ of 120 = 40

d) $\frac{3}{4}$ of 96 = 3 × 24 = 72

3. Complete:

a) 7kg = 7000 g

b) 2kg 5g = 2005 g

c) $1\frac{3}{10}$ kg = 1300 g

d) $15\frac{1}{4}$ kg = 15 250 g

4. Complete: a) 6 889 ≈ 6 890 correct to the nearest 10.

b) 319 543 ≈ 320 000 correct to the nearest 1000.

5. Insert $>$, $<$ or $=$ to make true statements.

a) 3×100 $\boxed{<}$ $3 \times 10 \times 10 \times 10$ b) $\frac{1}{2}$ of 1000 $^{=500}$ $\boxed{=}$ 5×100

c) 17 hundreds $^{=1700}$ $\boxed{>}$ 170   d) 2070g $\boxed{<}$ 2kg + $\frac{7}{10}$ kg $^{=2700g}$

e) 3 sixths $\boxed{<}$ 5 eighths   d) 7T + 5U + 8T $^{=155}$ $\boxed{=}$ 155

6. Add 6428 to the odd number which comes immediately after 7599 ~~7600~~ 7601.

6428 + 7601 = 14 029

7. Shade two thirds of the rectangle.
Any 4 of the 6 pieces can be shaded
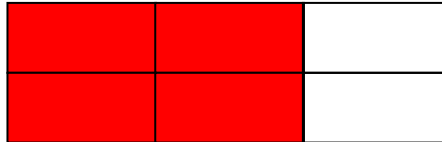
8. How many packets, each holding 250g of flour, can be filled from a large bag containing 2kg of flour. Hint: 1000 ÷ 250 = 4 → 2000g ÷ 250g = **8 packets** can be filled

9. Four kilograms of mince cost R360.
What is its price per kilogram? R360 ÷ 4 = R90/kg

10. Ouma pours $1\frac{1}{2}$ litres of juice from a 5-litre box of juice. How much juice is left in the box? $5\ell - 1\frac{1}{2}\ell = 3\frac{1}{2}\ell$

11. In 7640 there are _____ tens. Think 700 tens = 7000 thus 764 tens = 7640
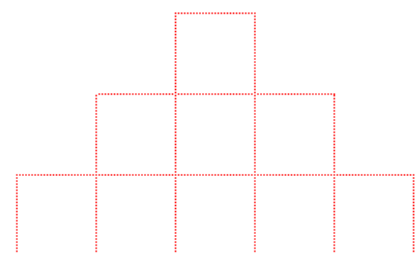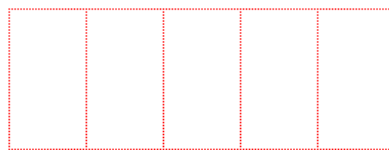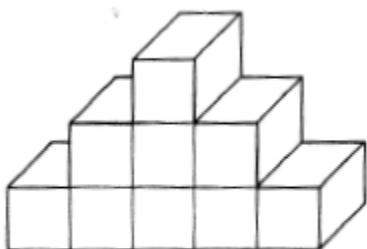
A   4   B   64   C   640   D   764

12. Draw the view of the 3-D figure from: a) the top   b) the back.

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