

1.7 $\sqrt{64 + 36}$ (RP)

a) 9

b) 14

c) 100

d) 10

1.8 Simplify this ratio 12:36 (RP)

a) 12:18

b) 6:9

c) 1:3

d) 3:4

1.9 0,8 written as a common fraction in its simplest form is: (K)

a) $\frac{8}{10}$

b) $\frac{3}{4}$

c) $\frac{4}{5}$

d) $\frac{80}{100}$

1.10 $0,06 \times 100$ (K)

a) 6

b) 0,6

c) 0,06

d) 60

Question 2:

Fill in < or > or =

[8]

2.1 $25\% \underline{=} \underline{\frac{1}{4}}$ (K)

2.2 $88,008 \underline{<} \underline{88,8}$ (K)

2.3 $436\ 207 \underline{>} \underline{432\ 607}$ (K)

2.4 Determine the LCM of 12 and 16. **48** (RP)

2.5 What is the HCF of 32 and 48? **16** (RP)

2.6 Write 140 as a product of its prime factors. **$2 \times 2 \times 5 \times 7$** (RP)

2.7 Write your answer to 2.6 in exponential form. **$2^2 \times 5 \times 7$** (RP)

2.8 Calculate: $9 + (2 + 5) \times 3^3 \div 9$ **30** (RP)

Question 3:

[8]

3.1 Round 4,825 off to the nearest

a) whole number **5** (K)

b) tenth **4,8** (K)

c) hundredth **4,83** (K)

3.2 Calculate

3.2.1 **6 587 688 + 433 947** (RP) [1]

7 021 635✓

3.2.2 **4 232 000 – 189 975** (RP) [1]

4 042 025✓

3.2.3 **12,428 + 34,265 + 1,7** (RP) [1]

48,393✓

3.2.4 **1,59 x 8,2** (RP) [2]

(Round your answer off to 2 decimal places)

13,038✓
13,04✓

Question 4: Calculate and write your answer in its simplest form.

[8]

4.1 $3\frac{3}{4} + 2\frac{1}{3} - 1\frac{5}{12}$ [4] (RP)

4.2 $1\frac{2}{5} \times 2\frac{2}{6} \times 2\frac{4}{7}$ (RP) [4]

$4\checkmark + \frac{3}{4} + \frac{1}{3} - \frac{5}{12}$ OR $\frac{15}{4} + \frac{7}{3} - \frac{17}{5}\checkmark$
 $4 + \frac{9}{12} + \frac{4}{12} - \frac{5}{12}\checkmark$ $\frac{225}{60} + \frac{140}{60} - \frac{85}{60}\checkmark$
 (changed to common denominator)
 $4 + \frac{8}{12}\checkmark$ $\frac{14}{3}\checkmark$
 $4\frac{2}{3}\checkmark$ $4\frac{2}{3}\checkmark$

$\frac{7}{5} \times \frac{14}{6} \times \frac{18}{7}$ (convert to improper) \checkmark
 Working/cross cancelling \checkmark
 $\frac{42}{5}\checkmark$
 $8\frac{2}{5}\checkmark$

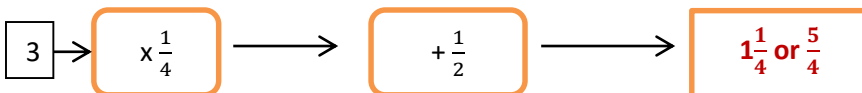
Question 5: Complete the table below. Write your answer in its simplest form.

(K) [3]

PERCENTAGE	DECIMAL FRACTION	COMMON FRACTION
26%	5.1 <u>0,26</u>	$\frac{13}{50}$
5.2 <u>20%</u>	0,2	$\frac{1}{5}$
67%	0,67	5.3 <u>$\frac{67}{100}$</u>

Question 6: Complete the following:

(1) [1]



Question 7: Problem Solving. Show all working.

[12]

7.1 Mr Legodi wants to buy a TV that costs R3 000. A discount of 15% is offered for a cash payment only. How much will he pay for the TV if he buys it using cash. **CP** (3)

$$\frac{15}{100} \times R3\,000$$
$$R450 \checkmark$$
$$R3\,000 - R450 \checkmark = R2\,550 \checkmark$$

7.2 Share the bill for lunch between Melrose, Halle and Thandi in the ratio 3: 1: 2. The total is R540. (4)

$$3: 1: 2$$
$$540 \div 6 = 90 \checkmark$$
$$R90 \times 3 = R270 \checkmark$$
$$R90 \times 1 = R90 \checkmark$$
$$R90 \times 2 = R180 \checkmark$$

CP

7.3 Calculate the percentage increase if a bag of sugar is increased from R40 to R48. (2)

$$48 - 40 = 8$$
$$\frac{8}{40} \times \frac{100}{1} \checkmark$$
$$20\% \checkmark$$

RP

7.4 If there are 3 600 entrants in a marathon race and $\frac{2}{3}$ have run this race before.

7.4.1 What is the number of entrants entering for the first time? (2)

$$\frac{2}{3} \text{ of } 3\,600$$
$$\frac{2}{3} \times \frac{3600}{1}$$
$$2\,400 \checkmark$$
$$3\,600 - 2\,400 = 1200 \checkmark$$

OR

$$\frac{1}{3} \text{ of } 3\,600 \checkmark$$
$$1200 \checkmark$$

CP

7.4.2 If 450 runners could not finish the race, what is the fraction (in its simplest form) of these **(K)** (1)

$\frac{1}{8}$