

<u>= 58</u> ✓

2.3) Integers a) -3 + 6 = 3 \checkmark

b)
$$9 - (-8) = 9 + 8 = 17$$

c)
$$5 \times (-3) = -15$$
 \checkmark (1)

(1)

(1)

55

d)
$$-7 + (-4 \times -2) = -7 + 8 \checkmark = 1$$
 \checkmark (2)

2.4) If Jack, Mpho and Shakir each take three tablets per day when they are sick. How many pills will they take altogether if they are sick for four days?(2)

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(3 x 3) x 4 \checkmark for setting up the multiplication in any way.
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2.5) 26 people want to build a greenhouse for their community that costs R91 234. How much does each person have to pay?

(3)



2.6) Mount Everest is 8 848 m high and the lowest point in Africa is Lake Assal, in Dijibouti, which is 157 m below sea level. What is the total distance between the top of Mount Everest and the lowest point at Lake Assal?

 $x = 8848 - (-157) \checkmark$ For setting up the sum.

OR = 8 848 + 157 ✓

= 9 005 m

		(2)
Qu	uestion 3	24
3.1) Which one of the fractions $2\frac{5}{6}$; $3\frac{2}{3}$; $2\frac{3}{4}$ or $3\frac{7}{12}$ is a	closest to 3? $2\frac{5}{6}$	(1)
3.2) Simplify $5\frac{42}{16}$	$7\frac{5}{8}$	(1)
3.3) Change $7\frac{5}{8}$ to an improper fraction	<u>61</u> 8	(1)
3.4) Convert 0,68 to a common fraction in its simple	st form. $\frac{17}{25}$	(1)
3.5) What is $\frac{5}{8}$ of 64kg?	40kg	(1)
3.6) Calculate: a) 356,9 + 27,283 – 5,999 <u>356,900</u>		
+ 27,283		
= 384,183✓		



 $=\frac{108}{1}$ 12 × 9

= R108✓ =108✓	•
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3.7) H&M is having a winter sale. All items are sold at a 25% discount. Calculate what you will pay for a pair of jeans that originally cost R460?

Calculating 25%	$=\frac{1}{4}\times\frac{460}{1}$	or	460÷4	setting up ÷ or "of" calculation√
	$=\frac{1}{1}\times\frac{115}{1}$		=115 ✓	
	= R115 discount			
	= R460 – R115			
	= R345√			
				(3)

3.8) Peter paid R120 for a soccer ball that originally cost R150. a) What % of the original price did he pay?

$=\frac{120}{150} \times \frac{100}{1}$	or $\frac{120 \div 30}{150 \div 30}$	
$=\frac{120}{3} \times \frac{2}{1}$	$=\frac{40}{50}$	
$=\frac{240}{3}\checkmark$	$=\frac{40\times 2}{50\times 2} = \frac{80}{100}\checkmark$	
= 80 %✓	= 80%√	(2)

b) With what % did the price of the soccer ball decrease?



4.1.1) 23



4.3.1)How many squares will the 5th pattern have ? 25 squares (1) 4.3.2) Determine the general rule for this pattern. $Y = X^2$ (1)4.3.3) How many squares will the 10th pattern have? Show how you got to your answer. (2) Y(10)² = 100 squares

5.1) a)	Write these algebraic $2 \times b - 4$	c expressions in their s = $12b - 4\checkmark$	Question 5 hortest form:	13
b)	$(3+m) \div n$	$=\frac{3m}{n}\checkmark$		
c)	$a \times 3 \times 4 \times b$	=12 <i>ab</i> ✓		(3 × 1 = 3)
5.2)	Write the following as	s:		
a)	The sum of p and do	uble q.	<i>p</i> +2q √	
b)	Subtract y from 2 and	d multiply by 6.	6(2−y) or (2−y) × 6✓	
c)	Divide 9 by q and additional data and q	d 14.	$\frac{9}{q}$ + 14 \checkmark	(3 × 1 = 3)
5.3) a) b)	Solve these algebraic xy = 4x $\frac{x}{2x} = 4 \div$	c expressions by substance $3 = 12\sqrt{3}$ $3 \times 3 = \frac{4}{9}\sqrt{3}$	titution. Let $x = 4$ and $y = 3$.	
c)	5y - x = 5 x	3-4 = 11		(3 × 1 = 3)

Solve the following equations by inspection: p + 8 = 17 $p = 9 \checkmark$ 5.4)

- a) 22 - *p* = 9 *p* = 13 ∕ b)
- $\frac{p}{12} = 3$ 5p + 13 = 38 p = **36**✓ c) p = 5 🖌 d)

 $(4 \times 1 = 4)$

Total: 75