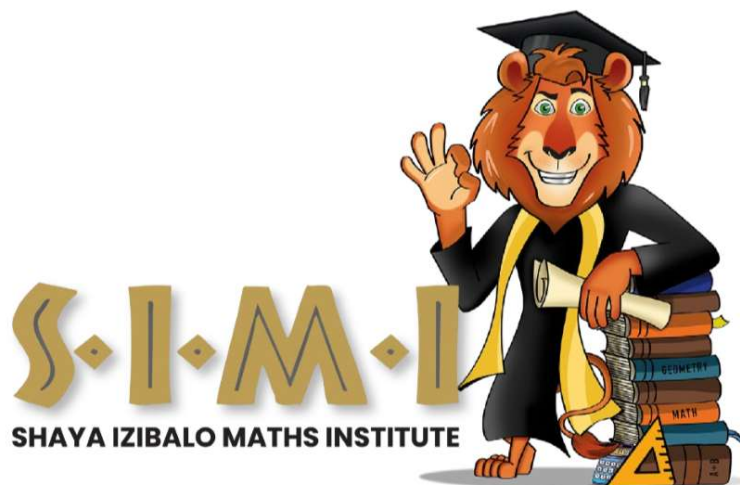




Second
GRADE 8 ...

Grade 8 Mathematics

Revision Workshop on 10th March 2026



NAME: _____

$++ \rightarrow +$
 $+ - \rightarrow -$
 $- + \rightarrow -$
 $-- \rightarrow +$

$+ \times + \rightarrow +$
 $+ \times - \rightarrow -$
 $- \times + \rightarrow -$
 $- \times - \rightarrow +$

$\frac{+}{+} = +$ $\frac{+}{-} = -$ $\frac{-}{+} = -$ $\frac{-}{-} = +$

$4 - (+3) + (-2)$
 $6 + 8 \div (-2)$

1. Simplify, remembering **BODMAS!**

a. $4 - (+3) + (-2)$

b. $6 + 8 \div (-2)$

1. Simplify, remembering BODMAS!

a. $4 - (+3) + (-2)$

$$= 4 - 3 - 2$$

$$= 1 - 2 = -1$$

c. $(4-6)(2-5)$

$$= (-2) \times (-3)$$

$$= 6$$

e. $-3 + (-5) - (-8)$

$$= -3 - 5 + 8$$

$$= -8 + 8 = 0$$

g. $(5-6)^{31} - (-4)$

$$= (-1)^{31} + 4$$

$$= -1 + 4 = +4 - 1$$

$$= 3$$

i. $\frac{(-2)(-3)(-4)}{8 \times (-6)}$

$$= \frac{-24}{-48} = \frac{-12}{-24}$$

$$= \frac{1}{2}$$

b. $6 + 8 \div (-2)$

$$= 6 - 4$$

$$= 2$$

d. $3 + 5 \times (-2)$

$$= 3 + (-10)$$

$$= 3 - 10$$

$$= -7$$

f. $4 + (3-7) - (2-9)$

$$= 4 + (-4) - (-7)$$

$$= 4 - 4 + 7 = 0 + 7$$

h. $\sqrt[3]{-3 \times 9}$

$$= \sqrt[3]{-27}$$

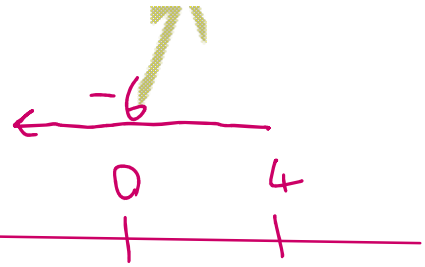
$$= -3$$

j. $4 - \frac{-8}{2} + \frac{-12}{-4}$

$$= 4 - (-4) + (+3)$$

$$= 4 + 4 + 3$$

$$= 11$$



$$9 - 2$$

$$= 7$$

2. Which would you prefer:

a. $\frac{2}{3}$ of a chocolate or $\frac{3}{5}$ of the same chocolate?

$$\frac{10}{15} \quad \frac{9}{15}$$

b. $\frac{5}{7}$ of a cake or $\frac{4}{5}$ of the same cake?

$$\frac{25}{35} \text{ or } \frac{28}{35}$$

$$0,71 < 0,8$$

$$\frac{5}{7} \times \frac{5}{5}$$

$$\frac{4}{5} \times \frac{7}{7}$$

3. Simplify, remembering order of operations!

a. $\frac{18}{24} = \frac{9}{12} = \frac{3}{4}$

c. $\frac{-24}{60} = \frac{-6}{15} = \frac{-2}{5}$

e. $\frac{3}{4} + \frac{1}{8} - \frac{1}{2}$
 $= \frac{6}{8} + \frac{1}{8} - \frac{4}{8} = \frac{3}{8}$

g. $\frac{1}{3} + \frac{1}{2} \times \frac{1}{5}$
 $= \frac{1}{3} + \frac{1}{10} = \frac{10}{30} + \frac{3}{30} = \frac{13}{30}$

i. $\frac{4}{5} - \frac{2}{3} \times \frac{8}{9}$
 $= \frac{4}{5} - \frac{16}{27} = \frac{108}{135} - \frac{80}{135} = \frac{28}{135}$

4. Convert the following to decimals:

a. $\frac{4}{5} = \frac{8}{10} = 0,8$

c. $\frac{3}{10} = 0,3$

b. $\frac{8}{10} + \frac{2}{5} = \frac{8}{10} + \frac{4}{10} = \frac{12}{10} = \frac{6}{5}$
 $3\text{cm} + 20\text{mm}$

d. $\frac{-8}{24} = \frac{-1}{3}$
 $\frac{4}{12} = \frac{2}{6} = \frac{1}{3}$
 $\text{R}5 + \text{R}3 = \text{R}8$

f. $\frac{3}{5} \times \frac{10}{30} = \frac{30}{150} = \frac{2}{10} = \frac{1}{5}$

h. $3\frac{1}{2} + \frac{2}{3}$
 $= \frac{7}{2} + \frac{2}{3} = \frac{21}{6} + \frac{4}{6} = \frac{25}{6}$
 $3\frac{1}{2} = 3 + \frac{1}{2}$
 $\frac{3}{1} + \frac{1}{2} = \frac{3 \times 2}{2} + \frac{1}{2} = \frac{7}{2}$

j. $\frac{3}{5} \div 2\frac{1}{3}$
 $= \frac{3}{5} \div \frac{7}{3} = \frac{3}{5} \times \frac{3}{7} = \frac{9}{35}$

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$\frac{5}{2^3} \times \frac{5^3}{5^3} = \frac{625}{1000} = 0,625$

$\frac{16}{10} = 1,6$

$\frac{253}{100} = 2,53$

5. Convert the following to percentages:

a. $\frac{2}{5} = \frac{40}{100} = 40\%$

c. $\frac{19}{25} = \frac{38}{50} = \frac{76}{100} = 76\%$

e. $\frac{1}{2} = 50\%$

b. $\frac{3}{4} = \frac{15}{20} = \frac{75}{100} = 75\%$

d. $0,35 = \frac{35}{100} = 35\%$

f. $0,07 = 7\%$

$$= \frac{16}{100} = 16\%$$

$$100 - 33\frac{1}{3}\%$$

e. $\frac{1}{3} = 33\frac{1}{3}\%$

f. $0,07$
 $= \frac{7}{100}$
 $= 7\%$

6. Increase a price of R32,50 by 20%

R	%
32,50	100
$\div 100 \rightarrow \frac{32,5}{100}$	$\div 100 \rightarrow 1$
$\times 120 \rightarrow \frac{32,5}{100} \times 120$	$\times 120 \rightarrow 120$
<u>= R39</u>	

7. A shopkeeper offers a discount of 15% on an item costing R300. What does it cost after the discount?

R	%
300	100
$\div 100 \rightarrow \frac{300}{100} = 3$	$\div 100 \rightarrow 1$
$\times 85 \rightarrow 3 \times 85$	$\times 85 \rightarrow 85$
<u>= R255</u>	

8. If \$30 costs R500 then:

a. What will \$98 cost in rands?

\$	R
30	500
$\div 30$	$\div 30$
1	$\frac{500}{30}$
$\times 98$	$\times 98$
98	$\frac{500}{30} \times 98$
	<u>R 1633,33</u>

b. What will R3700 cost in dollars?

\$	R
30	500
$\div 500$	$\div 500$
$\frac{30}{500}$	1
$\times 3700$	$\times 3700$
$\frac{30}{500} \times 3700$	3700
<u>222</u>	

9. An item costs R109,25 with 15% VAT included. What did it cost before the VAT was added?

R	%
109,25	115
$\div 115$	$\div 115$
$\frac{109,25}{115}$	1
$\times 100$	$\times 100$
$\frac{109,25}{115} \times 100$	100
<u>R 95</u>	

10. An item costs R2075 after a 17% discount has been given. What did it cost before the discount?

R	%
2075	83
$\div 83$	$\div 83$
$\frac{2075}{83}$	1
$\times 100$	$\times 100$
$\frac{2075}{83} \times 100$	100
<u>R 2500</u>	

