

Second GRADE 9 Revision Workshop for Term 1 on 12
Mar 2026

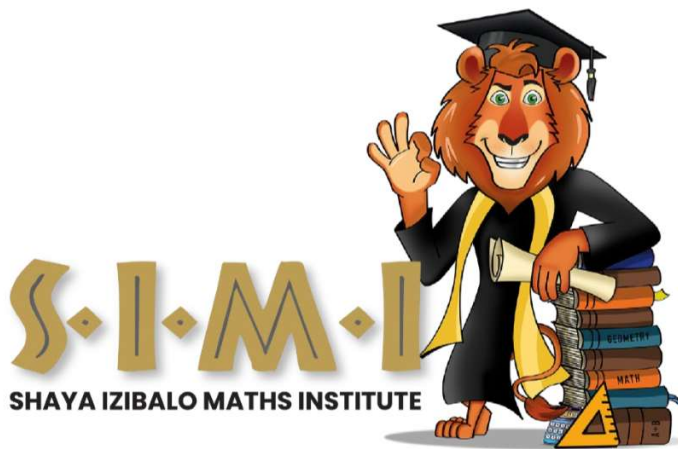
Thursday, 12 March 2026 06:48



Second
GRADE 9 ...

Grade 9 Mathematics

Revision Workshop on 12th March 2026



NAME: _____

e bodmas

$$= -2 \times 9$$

$$= -18$$

= 9

$$= -18$$



$$= 8 \times 9$$

$$= \underline{72}$$

$$= \sqrt[3]{-8}$$

$$= -2$$

d. $3\frac{1}{5} \times 2\frac{1}{4}$

$$= \frac{4\cancel{16}}{5} \times \frac{9}{\cancel{4}1}$$

$$= \frac{36}{5}$$

$$3\frac{1}{5} = \frac{16}{5}$$

$$3 + \frac{1}{5}$$

$$= \frac{3}{-1} + \frac{1}{5}$$

$$= \frac{3 \times 5}{5} + \frac{1}{5}$$

$$= \frac{3 \times 5 + 1}{5}$$

e. $\frac{4}{5} + 0.2 - 15\%$

$\times 20$

$$= \frac{80}{100} + \frac{20}{100} - \frac{15}{100} =$$

0,85

f. $\frac{3}{4} - (-3,2) + (-17\%)$

$$= \frac{75}{100} + \frac{320}{100} - \frac{17}{100}$$

$$= \frac{378}{100} \text{ or } 3,78$$

g. $3 \times 3 \times 3 \times \times 3 \times 3 \times 3 \times e \times e \times e$

h. $4^{11} \times 4^{15}$

$$= \frac{3^6 \times e^3}{3^6 e^3} \rightarrow$$

$$= 4^{11} \times 4^{15}$$

[illegible]

$$e^{105} \times e^3$$

$$= e^{108}$$

$$\begin{array}{r} 7 \overline{) 14} \\ \underline{10} \\ 20 \end{array}$$

2. Simplify the following giving your answers with positive exponents if necessary:

a. $a^3 \times a^{11}$
 $= a^{14}$

b. $e^7 \div e^4$
 $= \frac{e^7}{e^4} = e^3$

$\frac{g^{107}}{g^{102}} = g^5$
 $107 - 102$

c. $(2x)^4$
 $= (2x)(2x)(2x)(2x)$
 $= 2 \times 2 \times 2 \times 2 \times x \times x \times x \times x$
 $= 16x^4$

d. $a^3 \times a^7 \times a^9$
 $= a^{19}$

e. $\frac{g^8}{g^5}$
 $= g^3$

f. $\frac{8t^9}{2t^{12}}$
 $= \frac{4}{t^3} = 4t^{-3}$

g. $3^6 \times 3^5$
 $= 3^{11}$

h. $\frac{r^{5+9+7}}{r^{2+12+7}}$
 $= \frac{r^{21}}{r^{21}} = r^0 = 1$

i. $(3x)^2 \times (2x)^3$
 $= (3x)(3x)(2x)(2x)(2x)$
 $= 72x^5$

j. $\frac{3a^2b \times 4a^3b^6}{2ab^4 \times 6a^7b^2}$
 $= \frac{12a^5b^7}{12a^8b^6}$
 $= \frac{b}{a^3}$

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$(ab)^3 = ababab$
 $= a^3b^3$

$(a^3)^3 = a^3 \times a^3 \times a^3$
 $= a^9$

k. $\frac{(2a^2b^3)^3 \times 3ab^{-2}}{4ab^{-4} \times 6a^3b^8}$
 $= \frac{2^3 a^6 b^9 \times 3ab^{-2}}{24 a^4 b^4}$
 $= \frac{24 a^7 b^7}{24 a^4 b^4}$
 $= a^3 b^3$

l. $\sqrt{9a^6b^{16}} \times \sqrt[3]{8a^6b^{12}}$
 $= 3a^3b^8 \times 2a^2b^4$
 $= 6a^5b^{12}$

3. Consider the following set of numbers:

4; 10; 16; 22; 28; 34; ...

a. Write down the next 2 numbers

40 and 46

Since we add 6

6; 12; 18; 24.

- a. Write down the next 2 numbers

40 and 46

6; 12; 18; 24;

- b. What would the 12th term be?

$$T_{12} = 6 \times 12 - 2 = 70, \text{ Term no. } \times 6$$

- c. What would the n^{th} term be?

$$T_n = 6 \times n - 2$$

$$T_n = 6n - 2$$

$$T_1 = 6 \times 1 - 2$$

$$T_2 = 6 \times 2 - 2$$

$$T_5 = 6 \times 5 - 2$$

4. Consider the following set of numbers:

20; 17; 14; 11; 8;

- a. Write down the next 2 numbers

5 then 2

Subtracting 3

-3; -6; -9; -12

- b. What would the 12th term be?

$$T_{12} = -3 \times 12 + 23 = -13$$

Term no. $\times -3$

$$T_1 = -3 \times 1 + 23$$

$$T_2 = -3 \times 2 + 23$$

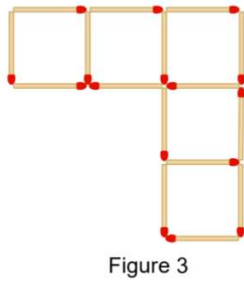
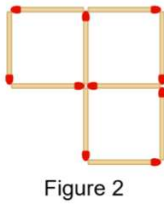
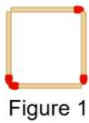
$$T_5 = -3 \times 5 + 23$$

- c. What would the n^{th} term be?

$$T_n = -3n + 23$$

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5. Consider the picture below:



Squares
2 x Fig. no. - 1

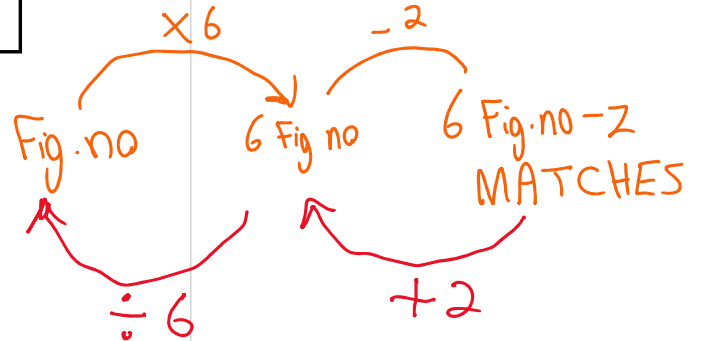
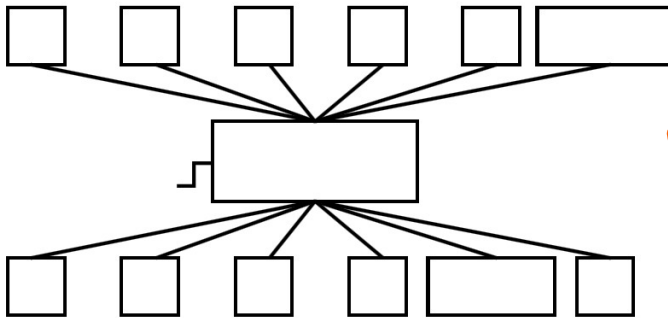
To get Fig. no.
we take no. of
Squares
ADD 1
then $\div 2$

Complete the table:

Figure Number	1	2	3	4	7	10	16	12	f	$\frac{S+1}{2}$	$\frac{m+2}{6}$
Number of Squares	1	3	5	7	13	19	31	31	$2f-1$	s	
Number of matches used	4	10	16	22	40	58	94	70	$6f-2$		m

To get no. of
matches
 $6 \times \text{Fig. no.} - 2$

6. Complete these number machines:



0 5 7 10 x $\frac{p-3}{2}$

double
then add 3

3 13 17 23 $2x+3$ p

0 4 7 15 p $\frac{q+5}{2}$

$2x-5$

-5 3 9 25 $2p-5$ q

□ □ □ □ □ □

$4x+1$

□ □ □ □ □ □

Double then add 3
subtract 3 then halve

→ Add 5
then divide
by 2

