

JUST NUMBERS

INGRID DU TOIT

WEEKLY EXERCISES FOR GRADE 8

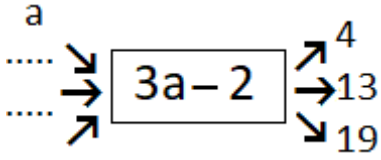
Term 1	▶	1 – 13
Term 2	▶▶	14 – 26
Term 3	▶▶▶	27 – 39
Term 4	▶▶▶▶	40 – 52

See www.abcmathsandscience.co.za for more

Please note:

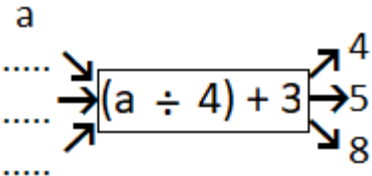
- The answers in the middle of the book can be removed.
- You may not use a calculator.
- Simplify unless otherwise indicated.

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a) 975×421	m) $(1 + 2^3) \times 4 \div 12$
b) $15\,748 \div 31$	n) $\sqrt{9} \times (3 + 8) - 7$
c) $61,2 \div 3$	o) $20 - 8^2 \div (13 - 9)$
d) $6,4 \times 100$	p) $72 - 56 \div 8 \times \sqrt{16}$
e) $2,4 \times 1,4$	q) $(60 - 5 \times \sqrt{81}) + 15$
f) $8,3 - 3,6$	r) $b + 5 = 21$ $\rightarrow b = \dots\dots\dots$
g) $\frac{2}{5} \times \frac{10}{4}$	s) $c = 3$ $\rightarrow c \times 6 + 4 = \dots\dots\dots$
h) $\frac{4}{5} - \frac{2}{3}$	t) $63 : 28$ $\rightarrow 9 : \dots\dots$
i) $\frac{1}{25} = 0, \dots\dots\dots$	u) $5; -2; -9; \dots\dots ; \dots\dots$
j) $4\% \times 300$	v) $16; 18; 20; 22; \dots\dots ; \dots\dots$ $T_n = \dots\dots\dots$
k) $\frac{4}{5} = \dots\dots\dots \%$	w) a 
l) $70\% = \frac{\square}{\square}$	

a) $\frac{12}{11} \times \frac{5}{22}$	m) $19 + (8 \times 0 + \sqrt[3]{1})$								
b) $5\frac{1}{2} - 4\frac{1}{4}$	n) $(4^3 - 32) \div (2 \times 4)$								
c) $6\frac{3}{10} = \dots, \dots\dots\dots$	o) $(48 \div 6) + 8^2 \div 16$								
d) $40\% \times 70$	p) $6 \times 6 - (24 \div \sqrt[3]{8})$								
e) $1\frac{3}{4} = \dots\dots\dots\%$	q) $27 \div \sqrt[3]{27} + 9 \times 8$								
f) $0,004 \times 3,3$	r) $48c : R7,20$ $\rightarrow 1 : \dots\dots$								
g) $22,14 \div 6$	s) $m = 3$ $\rightarrow 5 \times m + 2 = \dots\dots\dots$								
h) $7,8 \div 100$	t) $y - 3 = 12$ $\rightarrow y = \dots\dots\dots$								
i) $5,1 - 2,03$	u) $100 \text{ cm} = \dots\dots\dots \text{ mm}$								
j) -2×3	v) $3; 5; 7; 9; \dots; \dots$ $T_n = \dots\dots\dots$								
k) $-11 + 6$	w) $y = 4x + 1$, complete								
l) $-4 - 4 - 3$	<table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">5</td> </tr> <tr> <td style="padding: 5px;">y</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </tbody> </table>	x	1	2	5	y			
x	1	2	5						
y									

a) $4,7 \times 8,7$	m) $3 \times (5 - 8 + 1)$								
b) $61,92 \div 24$	n) $(9^2 + 3 \times 6) - 30$								
c) $6,48 + 9,6$	o) $(11^2 - \sqrt{121}) \div (110 \div 11)$								
d) $\frac{5}{12} \times \frac{18}{10}$	p) $(9 \times 3) - 12^2 \div 3$								
e) $\frac{3}{4} + \frac{5}{6} - \frac{5}{8}$	q) $25 + (7^2 + 1) \times 3$								
f) $\frac{2}{5} = 0, \dots\dots\dots$	r) $55 \div \sqrt[3]{125} - (5 + 3)$								
g) $5\% \times R2\ 000$	s) $3p = 24$ $\rightarrow p = \dots\dots\dots$								
h) $\frac{31}{50} = \dots\dots\dots \%$	t) $14\ cm : 49\ mm$ $\rightarrow 20 : \dots\dots$								
i) $24\% = \frac{\boxed{}}{\boxed{}}$	u) $b = 24$ $\rightarrow b \div 8 - 3 = \dots\dots\dots$								
j) $5 - 18$	v) $1; 5; 9; 13; \dots; \dots$ $T_n = \dots\dots\dots$								
k) -6×-6	w) <table border="1" style="display: inline-table; vertical-align: middle;"> <tbody> <tr> <td>x</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>y</td> <td>0</td> <td>-1</td> <td>-2</td> </tr> </tbody> </table>	x	1	2	3	y	0	-1	-2
x	1	2	3						
y	0	-1	-2						
l) $(-2)^3$	$y = \dots\dots\dots$								

a) $5,4 \times 6$	m) $13^2 + 56 \div 7 \times 6$
b) $2,92 \div 4$	n) $4 \times (4 + \sqrt{144} \times 8)$
c) $13,27 - 5,7$	o) $4 \times (18 - 6) + \sqrt{25}$
d) $\frac{5}{12} \times \frac{4}{3}$	p) $(\sqrt[3]{64} \times 3) + (14 - 8)$
e) $4 - 2\frac{2}{3}$	q) $(30 \div 6 - 4) + 10^3$
f) $3\frac{3}{4} = \dots, \dots\dots\dots$	r) $a \div 6 = 30$ $\rightarrow a = \dots\dots\dots$
g) $35\% \times 65$	s) $55c : R7,70$ $\rightarrow 1 : \dots\dots$
h) $\frac{11}{20} = \dots\dots\dots \%$	t) $x = 4$ $\rightarrow 2x - 5 = \dots\dots\dots$
i) $-1 \times -4 \times -3$	u) $6; 11; 16; 21; \dots; \dots$ $T_n = \dots\dots\dots$
j) $(4 - 5) - (-3)$	v) $6\,000\text{ cm} = \dots\dots\dots\text{ m}$
k) $(-1)^3 \times (-6)$	w) 
l) $(2^2 - 6) - (8 - 3)$	

a) $\frac{5}{12} - \frac{3}{4}$	m) $42 \div (3 \times 7) + 10^2$								
b) $\frac{12}{8} \times \frac{14}{4}$	n) $(5^3 \div 5) - 5 \times 5$								
c) $4,779 \div 9$	o) $\sqrt{169} - (15 - 11) \times 2$								
d) $6,1 + 5,9$	p) $7 + 108 \div (120 \div \sqrt[3]{1000})$								
e) $93,4 \times 9$	q) $(64 \div 8) - (9 + 6)$								
f) $9\% \times R500$	r) $(5 + 9) - (-8) \times (-8)$								
g) $\frac{1}{2} = \dots\dots\dots\%$	s) $60 - (7 \div 1^2) \times 9$								
h) $\frac{1}{9} = 0, \dots\dots\dots$	t) $-3 + 7 \times (12 - 6)$								
i) $220\% = \begin{array}{ c } \hline \square \\ \hline \square \\ \hline \end{array}$	u) $250 : 1550$ $\rightarrow 5 : \dots\dots\dots$								
j) $5n = 0$ $\rightarrow n = \dots\dots\dots$	v) $-4; -1; 2; \dots\dots; \dots\dots$ $T_n = \dots\dots\dots$								
k) $p = 5$ $\rightarrow 3 \times 3 - p = \dots\dots\dots$	w) $y = -x - 3$, complete								
l) $4^3 \div 1000$	<table border="1"> <tbody> <tr> <td>x</td> <td>1</td> <td>2</td> <td>7</td> </tr> <tr> <td>y</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	x	1	2	7	y			
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