

Grade 4 | Mental Maths | Term 4

Answers

Question 1

Write down the value of each underlined digit.

a) $\underline{7}$ 236 7000 ✓

b) 3 $\underline{125}$ 5 ✓

c) 6 $\underline{632}$ 30 ✓

d) 5 $\underline{256}$ 200 ✓

Complete:

Which number is even?

3 $\underline{225}$, 5 $\underline{323}$, 3 $\underline{552}$

Answer: 3 $\underline{552}$ ✓

Total 5 /5

Question 2

a) $7\ 000 + 50 = 7\ 050$ ✓

b) $600 + 9\ 000 = 9\ 600$ ✓

c) $1\ 000 + \underline{400} + \underline{600} = 2\ 000$ ✓

d) $5\ 000 + 2 + 50 = 5\ 052$ ✓

e) $\underline{80} + 7000 + \underline{40} = 7\ 120$ ✓

f) $(3 \times 10) + (9 \times 100) = 930$ ✓

g) $(6 \times 1000) + (6 \times 1) = 6\ 006$ ✓

h) $(15 \times 100) + (4 \times 1000)$
 $= 1\ 500 + 4\ 000 = 5\ 500$ ✓

Total 8 /8

Question 3

Round off to the nearest 10:

a) $75 \approx 80$ ✓

b) $\underline{896} \approx \underline{900}$ ✓ $\underline{890}$ 896 $\underline{900}$

c) $7\ 013 \approx 7\ 010$ ✓

Round off to the nearest 100:

a) $739 \approx 700$ ✓

b) $2\ 456 \approx 2\ 500$ ✓

c) $\underline{5\ 973} \approx \underline{6\ 000}$ ✓

Total 6 /6

Question 4

Round off to the nearest 1 000:

a) $1\ 624 \approx 2\ 000$ ✓

b) $5\ 379 \approx 5\ 000$ ✓

c) $8\ 921 \approx 9\ 000$ ✓

Complete:

a) The odd numbers **between** 295 and 305 are
297, 299, 301, 303. ✓

b) The 3 even numbers just before 1 004 are
1 002, 1 000, 998. ✓

Total 5 /5

Question 5

The number which is:

a) 20 more than 5 836 is

$$\underline{5\ 836} + \underline{20} = \underline{5\ 856} \checkmark$$

b) 5 hundred less than 9 857 is

$$\underline{9\ 854} - \underline{500} = \underline{9\ 354} \checkmark$$

c) 700 more than 2 604 is

$$\underline{2\ 604} + \underline{700} = \underline{3\ 304} \checkmark$$

d) $\underline{12 \times 10}$ less than 9 500 is

$$9\ 500 - \underline{120} = \underline{9\ 380} \checkmark$$

Total 4 /4

Question 6Insert the symbol $>$, $<$ or $=$.

a) $3\ 343 < 3\ 434 \checkmark$

b) $1\ 200 = 120 \text{ tens} = 1\ 200 \checkmark$

c) $5\ 965 \times 1 > 5\ 965 - 1 \checkmark$

d) $2\ 000 + 600 = 3\ 000 - 400 \checkmark$
[2 600]

e) $815 < (8 \times 100) + (15 \times 10) \checkmark$
 $800 + 150 = 950$

f) $6\ 745 + 300 < 7\ 054 \checkmark$
 $= 7\ 045$

g) $\underline{3\ 680} + 50 > \underline{3\ 720} \checkmark$
 $= 3\ 730$

Total 7 /7

Question 7

a) $\underline{6} + 4 + 7 = \underline{10} + 7 = 17 \checkmark$

b) $15 + 16 = 31 \checkmark$

c) $98 + 12 = 110 \checkmark$

d) $115 + 15 = 130 \checkmark$

e) $322 + 233 = 555 \checkmark$

f) $980 + 75 = 1\ 055 \checkmark$

g) $750 + 570 = 1\ 320 \checkmark$

h) $4\ 502 + 2\ 540 = 7\ 042 \checkmark$

Total 8 /8

Question 8

a) $18 + \underline{9} = 27 \checkmark$

b) $8 + \underline{16} + 6 = 30 \checkmark$

c) $\underline{35} + 70 = 105 \checkmark$

d) $45 + \underline{28} = 73 \checkmark$ [73 - 45 = 28]

e) $\underline{19} + 35 + 45 = 99 \checkmark$

f) $250 + \underline{150} = 400 \checkmark$

g) $\underline{421} + 812 = 1\ 233 \checkmark$

h) $2\ 750 + \underline{4\ 750} = 7\ 500 \checkmark$

Total 8 /8

Question 9

- a) $27 - 9 = 18$ ✓
- b) $80 - 15 = 65$ ✓
- c) $120 - 30 - 9 = 81$ ✓
- d) $520 - 50 = 470$ ✓
- e) $780 - 200 - 50 = 530$ ✓
- f) $1\ 000 - 121 = 879$ ✓
- g) $2\ 200 - 900 = 1\ 300$ ✓
- h) $7\ 300 - 3\ 070 = 4\ 230$ ✓

Total 8 / 8

Question 10

- a) $12 - 5 = 7$ ✓ [12 - 7 = 5]
- b) $40 - 12 = 28$ ✓
- c) $100 - 75 = 25$ ✓
- d) $250 - 130 = 120$ ✓ [120 + 130 = 250]
- e) $300 - 95 = 205$ ✓
- f) $2\ 432 - 432 = 2\ 000$ ✓
- g) $8\ 050 - 75 = 7\ 975$ ✓
- h) $5\ 250 - 4\ 500 = 750$ ✓

Total 8 / 8

Question 11

- a) 50 is 35 more than 15. ✓
Think: $50 - 15 = 35$
- b) 85 is 27 more than 58. ✓
- c) 400 is 360 more than 40. ✓
- d) 1 256 is 300 more than 956. ✓
- e) 9 is 6 less than 15. ✓
Think: $15 - 9 = 6$
- f) 50 is 75 less than 125. ✓
- g) 125 is 390 less than 515. ✓
- h) 799 is 901 less than 1 700. ✓

Total 8 / 8

Question 12

- a) The sum of two consecutive numbers is 387. *Estimate half of 387.*
What are the two numbers?
193 and 194 ✓
- b) The difference between 2 500 and 1 800 is $2\ 500 - 1\ 800 = 700$ ✓
- c) The sum of three numbers is 640 000.
Two of the numbers are 230 500 and 170 500. = 401 000
Find the third number.
 $640\ 000 - 401\ 000 = 239\ 000$ ✓

Total 3 / 3

Question 13

- a) $2 \text{ kg} = 2\,000 \text{ g}$ ✓
- b) $\frac{1}{2} \text{ kg} = 500 \text{ g}$ ✓
- c) $1 \text{ kg } 15 \text{ g} = 1\,015 \text{ g}$ ✓
- d) $4\frac{1}{4} \text{ kg} = 4\,250 \text{ g}$ ✓
- e) $1 \text{ kg} - 350 \text{ g} = 650 \text{ g}$ ✓
- f) $1\frac{3}{4} \text{ kg} + 340 \text{ g} = 2 \text{ kg } 90 \text{ g}$ ✓
 $1750 \text{ g} + 340 \text{ g} = 2090 \text{ g}$
- g) $2\frac{1}{4} \text{ kg} - \frac{1}{2} \text{ kg} = 1\,750 \text{ g}$ ✓
 $2250 \text{ g} - 500 \text{ g} = 1750 \text{ g}$
- h) $5\frac{1}{2} \text{ kg} - 300 \text{ g} = 5 \text{ kg } 200 \text{ g}$ ✓
 $5\,500 \text{ g} - 300 \text{ g} = 5\,200 \text{ g}$

Total 8 / 8

Question 14

- a) $80 \text{ g} \times 3 = 240 \text{ g}$ ✓
- b) $3 \times 250 \text{ g} = \frac{3}{4} \text{ kg}$ ✓ 750g
- c) $\frac{1}{4} \text{ kg} \div 2 = 250 \text{ g} \div 2 = 125 \text{ g}$ ✓
- d) $15 \text{ g} \times 10 \times 10 = 1 \text{ kg } 500 \text{ g}$ ✓
- e) $72 \text{ grams} \div 12 = 6 \text{ grams}$ ✓
- f) $2 \text{ kg } 500 \text{ g} \times 3 = 6 \text{ kg } 1\,500 \text{ g}$
 $= 7 \text{ kg } 500 \text{ g}$ ✓
- g) $1 \text{ kg} \div 5 = 1000 \text{ g} \div 5$
 $= 200 \text{ g}$ ✓
- h) $12 \text{ kg } 480 \text{ g} \div 4 = 3 \text{ kg } 120 \text{ g}$ ✓

Total 8 / 8

Question 15

Complete:

- a) One packet holds 250g of sugar.
How many packets can be filled from a 1kg bag of sugar?
 $250 \text{ g} \times 4 = 1000 \text{ g} = 1 \text{ kg}$
 4 packets ✓
- b) 1 kg of cheese costs R120.
Calculate the cost of:
- i) $\frac{1}{2} \text{ kg}$ of cheese. $R120 \div 2 = R60$ ✓
- ii) 100g of cheese. $R120 \div 10 = R12$ ✓
- iii) 700g of cheese. $R12 \times 7 = R84$ ✓

Total 4 / 4

Question 16

- a) 1 whole = 2 halves ✓
- b) $\frac{1}{2} = \frac{4}{8}$ ✓
- c) 3 quarters = 6 eighths ✓
- d) 1 third of 6 = $6 \div 3 = 2$ ✓
- e) $\frac{1}{5}$ of 30 = $30 \div 5 = 6$ ✓
- f) 1 half of 90 = 45 ✓
- g) 1 sixth + 5 sixths = 1 whole ✓
- h) 1 whole - 3 eighths = 5 eighths ✓

Total 8 / 8

Question 17

- a) $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$ ✓
- b) $\frac{6}{7} - \frac{4}{7} = \frac{2}{7}$ ✓
- c) $1 - \frac{5}{8} = \frac{3}{8}$ ✓
- d) $\frac{2}{5} + \frac{1}{5} + \frac{2}{5} = \frac{5}{5} = 1$ ✓
- e) $\frac{1}{4} = \frac{2}{8}$ ✓
- f) $\frac{1}{2} = \frac{2}{4}$ ✓
- g) Which is larger? $\frac{3}{4}$ or $\frac{1}{2} = \frac{2}{4}$ ✓
- h) Which is smaller? $\frac{3}{8}$ or $\frac{1}{4} = \frac{2}{8}$ ✓

Total 8 / 8

Question 18

- a) 20 cakes are shared equally amongst 4 people.
NB: Sharing amongst 4 - think quarters.
What fraction of the cakes does each person get? ^{5 cakes each.}

Answer: $\frac{5}{20} = \frac{1}{4}$ of the cakes. ✓

- b) There are one hundred burgers.
 $\frac{1}{2}$ are beef, $\frac{1}{5}$ are vegetarian and the rest are chicken burgers.

The number of:

- i) beef burgers = $\frac{1}{2}$ of 100 = 50 ✓
- ii) veg burgers = $\frac{1}{5}$ of 100 = 20 ✓
- iii) chicken burgers = $100 - 50 - 20 = 30$ ✓

Total 4 / 4

Question 19

- a) $\frac{1}{3}$ of 12 = $12 \div 3 = 4$ ✓
"1 third of 12 is 4"
- $\frac{2}{3}$ of 12 = $2 \times 4 = 8$ ✓
"2 thirds of 12 is 8"
- b) $\frac{1}{4}$ of 8 = $8 \div 4 = 2$ ✓
- $\frac{3}{4}$ of 8 = $3 \times 2 = 6$ ✓
- c) $\frac{1}{5}$ of 15 = $15 \div 5 = 3$ ✓
- $\frac{4}{5}$ of 15 = $4 \times 3 = 12$ ✓
- d) $\frac{1}{8}$ of 40 = $40 \div 8 = 5$ ✓
- $\frac{7}{8}$ of 40 = $7 \times 5 = 35$ ✓

Total 6 / 6

Question 20

- a) $15 \div 3 = 5$ ✓
- b) $24 \div 8 = 3$ ✓
- c) $42 \div 7 = 6$ ✓
- d) $54 \div 9 = 6$ ✓
- e) $96 \div 8 = 12$ ✓
- f) $300 \div 6 = 50$ ✓
- g) $560 \div 8 = 70$ ✓
- h) $720 \div 9 = 80$ ✓

Total 8 / 8

Question 21

- a) $19 \div 2 = 9 \text{ rem } 1$ ✓
- b) $29 \div 3 = 9 \text{ rem } 2$ ✓
- c) $45 \div 6 = 7 \text{ rem } 3$ ✓
- d) $70 \div 9 = 7 \text{ rem } 7$ ✓
- e) $15 \div 6 = 2 \text{ rem } 3$ ✓
- f) $20 \div 3 = 6 \text{ rem } 2$ ✓
- g) $37 \div 8 = 4 \text{ rem } 5$ ✓
- h) $80 \div 7 = 11 \text{ rem } 3$ ✓

Total 8 / 8

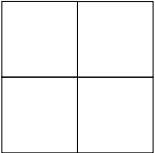
Question 22

- a) Three identical books cost R480,00 altogether.
Calculate the cost per book.
 $R480 \div 3 \text{ books} = R160/ \text{book}$ ✓
- b) 370 apples must be packed into 8 boxes with the same number in each box. $370 \div 8 = 46 \text{ r } 2$
How many apples:
i) Must be packed into each box? 46 ✓
ii) Will be left over? 2 ✓
- *c) JP and Jim washed 72 cars together. JP washed twice as many cars as Jim. $72 \div 3 = 24$
i) Jim washed 24 cars. ✓
ii) JP washed $2 \times 24 = 48$ cars. ✓

Total 5 / 5

Question 23

Complete:

- a) A square is 3cm long.
The perimeter of the square
 $= 3\text{cm} + 3\text{cm} + 3\text{cm} + 3\text{cm}$
 $= 12\text{cm}$ ✓ [or $4 \times 3\text{cm} = 12\text{cm}$]
- b) A rectangle is 7m wide and 12m long.
The perimeter of the rectangle
 $= 7\text{m} + 7\text{m} + 12\text{m} + 12\text{m}$
 $= 14\text{m} + 24\text{m}$
 $= 38\text{m}$ ✓
- c)  Each block is 1cm long.
Area of the square
 $= 4 \text{ square cm}$ ✓
Perimeter of the square
 $= 8 \text{ cm}$ ✓ [$2\text{cm} + 2\text{cm} + 2\text{cm} + 2\text{cm}$]

Total 4 / 4

Question 24

- a) $3\ 045 + 2\ 709 = 5\ 754$ ✓
- b) $7\ 000 - 2\ 800 = 4\ 200$ ✓
- c) $25 \times 12 = 300$ ✓
- d) $220 \div 3 = 73 \text{ rem } 1$ ✓
- e) $45 + 63 + 81 = 189$ ✓
- f) 2 thirds of 120 $= 2 \times 40 = 80$ ✓
1 third of 120 $= 40$
- g) $45 \times 2 \times 6 = 90 \times 6 = 540$ ✓
- h) $960 \div 80 = 12$ ✓

Total 8 / 8

Question 25

- a) Which number is made up of 12 tens and sixteen units?

$$120 + 16 = 136 \checkmark$$

- b) After James sells 380 newspapers he has 120 newspapers left.

How many newspapers did he have originally?

$$380 + 120 = 500 \checkmark$$

- c) The difference between two consecutive numbers is always 1. \checkmark

e.g. $8 - 7 = 1$
 $200 - 199 = 1$

Total 3 / 3

Question 26

a) $\frac{1}{2}$ kg + 2kg 250g = $2\frac{3}{4}$ kg \checkmark
 $500\text{g} + 2\ 250\text{g} = 2\ 750\text{g}$

b) $6\ 000 - 660 = 5\ 340 \checkmark$

c) $\frac{3}{4}$ of 80kg = $3 \times 20\text{kg} = 60\text{kg} \checkmark$

d) $2\text{kg} \div 4 = 500\text{g} \checkmark$
 $2000\text{g} \div 2 \div 2$

e) $40 \div 3 = 13 \text{ rem } 1 \checkmark$

f) $25 \times 4 \times 6 = 600 \checkmark$
 $25 \times 6 = 150$ and $150 \times 4 = 600$

g) 1 half of 13 = $6\frac{1}{2} \checkmark$

*h) 2 thirds of 18 = 12 \checkmark

Total 8 / 8

Question 27

True or False?

If false, give the correct answer.

a) $25\text{H} + 8\text{U} = 2\ 508$ True \checkmark

b) $6\ 268 \times 1 = 6\ 269$ False. 6 268. \checkmark

c) $25 \times 8 = 200$ True \checkmark

d) $8\text{kg } 8\text{g} = 8\ 800\text{g}$ False. 8008g. \checkmark

e) $3\text{kg} \div 2 = 1\frac{1}{3}\text{kg}$ False. $1\frac{1}{2}\text{kg}$ \checkmark

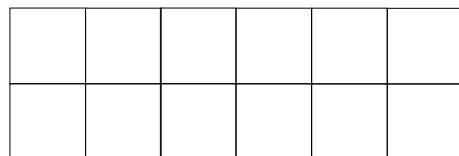
f) $5\ 000 - 150 = 4\ 850$ True \checkmark

g) $\frac{5}{6}$ of 120 = 105 False. 100 \checkmark

Total 7 / 7

Question 28

- a) Each block is 1cm long.



Area of the rectangle
 = 12 square cm \checkmark

Perimeter of the rectangle
 = 16 cm \checkmark [$2\text{cm} + 2\text{cm} + 6\text{cm} + 6\text{cm}$]

- b) Kim and Anna read 15 books together. Anna read twice as many books as Kim. $15 \div 3 = 5$
- i) Kim read 5 books. \checkmark
- ii) Anna read $2 \times 5 = 10$ books. \checkmark

Total 4 / 4

Question 29

- a) $(7 \times 1) + (8 \times 1\,000) = 8\,007$ ✓
- b) $(10 \times 10) + (4 \times 10) = 140$ ✓
- c) $(12 \times 100) + (6 \times 1000) + 19$
 $= 1\,200 + 6\,000 + 19 = 7\,219$ ✓
- d) $88 \div 9 = 9 \text{ rem } 7$ ✓
- e) $12 \div 6 = 2$ ✓
- f) $31 \div 3 = 10 \text{ rem } 1$ ✓
- g) $49 \div 8 = 6 \text{ rem } 1$ ✓
- h) $89 \div 7 = 12 \text{ rem } 5$ ✓

Total 8 / 8

Question 30

- a) $120 - 11 = 109$ ✓
- b) $100 - 44 = 56$ ✓
- c) $1\,000 - 75 = 925$ ✓
- d) $(2 \times 10) + (4 \times 100) = 420$ ✓
- e) $12 \times 11 = 132$ ✓
- f) $50 \times 80 = 4\,000$ ✓
- g) $6\,500 - 75 = 6\,425$ ✓
- h) $5\,250 + 4\,500 = 9\,750$ ✓

Total 8 / 8

Question 31

- a) $3\,045 \times 0 = 0$ ✓
- b) $3\,045 - 0 = 3\,045$ ✓
- c) $3\,045 \div 3\,045 = 1$ ✓
- d) $270 \div 3 = 90$ ✓
- e) $40 + 62 + 83 = 185$ ✓
- f) 3 fourths of 120 = $3 \times 30 = 90$ ✓
 1 fourth of 120 = 30
- g) $35 \times 2 \times 4 = 70 \times 4 = 280$ ✓
- h) $880 \div 80 = 11$ ✓

Total 8 / 8

Question 32

- a) $150 + 150 + 150 = 450$ ✓
- b) $(7 \times 1\,000) - 2\,600$
 $= 7\,000 - 2\,600 = 4\,400$ ✓
- c) $25 \times 15 = 375$ ✓
- d) $301 \div 3 = 100 \text{ rem } 1$ ✓
- e) $90 \times 40 = 3\,600$ ✓
- f) $75 + 15 + 15 + 5$
 $= 75 + 35 = 110$ ✓
- g) $6 \times 5 \times 6 = 30 \times 6 = 180$ ✓
- h) $720 \div 60 = 12$ ✓

Total 8 / 8