

Grade 5 | Mental Maths | Term 4

Answers

Question 1

Write down the value of each underlined digit.

- a) 7 236 200 ✓
- b) 29 136 9 000 ✓
- c) 756 612 10 ✓
- d) 462 807 400 000 ✓

Complete:

Six hundred and five thousand, eight hundred and twenty one is written...

Answer: 605 821 ✓

Total 5 /5

Question 2

The number which is:

- a) 5 Th more than 7 582 is
12 582 ✓
- b) 700 less than 15 250 is
14 550 ✓
- c) 30 more than 29 999 is
 $29\,999 + 1 + 29 = 30\,029$ ✓
- d) 25×100 less than 100 000 is
 $100\,000 - 2\,500 = 97\,500$ ✓

Total 4 /4

Question 3

- a) $7\,000 + 500\,000 = 507\,000$ ✓
- b) $25 \text{ tens} + 10 \text{ units} = 260$ ✓
250 + 10
- c) $800 + 200\,000 + 600 = 201\,400$ ✓
- d) $(3 \times 10) + (8 \times 1\,000) = 8\,030$ ✓
- e) 20 hundreds + 30 tens
 $= 2\,000 + 300 = 2\,300$ ✓
- f) $1 + 10 + 100 + 10\,000 = 10\,111$ ✓
- g) $(18 \times 100) + (3 \times 1\,000) = 4\,800$ ✓
- h) $50 + 60\,000 + 70 + 900 = 61\,020$ ✓
 $60\,000 + 900 + 120 = 60\,000 + 1\,020$

Total 8 /8

Question 4

Round off to the nearest 5:

- a) $727 \approx 725$ ✓
- b) $5\,582 \approx 5\,580$ ✓
- c) $19\,398 \approx 19\,400$ ✓
Option 1: 19 395 Option 2: 19 400

Round off to the nearest 1 000:

- a) $7\,826 \approx 8\,000$ ✓
- b) $19\,526 \approx 20\,000$ ✓
- c) $405\,299 \approx 405\,000$ ✓

Total 6 /6

Question 5

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

- a) $66\ 699 = 66\ 689 + 10 > 66\ 698$ ✓
- b) $2\ 300 = 230 \times 10 = 23 \times 10 \times 10$ ✓
- c) $20\ 000 \times 1 = 19\ 999 + 1 = 20\ 000$ ✓
- d) $800\ 000 + 60 > 600\ 000 + 800$ ✓
- e) $12\ 700 > (12 \times 1000) + (7 \times 10)$ ✓
- f) $0 = 9\ 999 \times 0 < 1\ 000 \times 1$ ✓
- g) $10\ 000 = 100 \times 100 < 100\ 000$ ✓

Total 7 / 7

Question 7

- a) $50 - 15 - 5 = 30$ ✓
- b) $1\ 000 - 68 = 932$ ✓
- c) $640 - 60 - 4 = 576$ ✓
- d) $898 - 199 = 699$ ✓
 $898 - 198 - 1 = 700 - 1 = 699$
- e) $5\ 000 - 5 - 500 = 4\ 495$ ✓
- f) $14\ 300 - 6\ 000 - 200 = 8\ 100$ ✓
- g) $80\ 000 - 8\ 000 - 80 = 71\ 920$ ✓
- h) $200\ 000 - 185\ 100 = 14\ 900$ ✓

Total 8 / 8

Question 6

- a) $8 + 9 + 2 = 19$ ✓
- b) $250 + 25 + 2 = 277$ ✓
- c) $1\ 800 + 576 = 2\ 376$ ✓
- d) $3\ 500 + 6\ 500 = 10\ 000$ ✓
- e) $19\ 999 + 25 = 20\ 024$ ✓
 $19\ 999 + 1 + 24 = 20\ 000 + 24$
- f) $28\ 001 + 7\ 001 = 35\ 002$ ✓
- g) $80\ 018 + 10\ 081 = 90\ 099$ ✓
- h) $352\ 070 + 18\ 030 = 370\ 100$ ✓

Total 8 / 8

Question 8

- a) $25 + 29 = 54$ ✓
- b) $300 - 70 = 230$ ✓
- c) $5 + 8 + 9 = 22$ ✓
- d) $1\ 200 - 950 = 250$ ✓
- e) $3\ 700 + 2\ 500 = 6\ 200$ ✓
- f) $15\ 000 + 6\ 080 = 21\ 080$ ✓
- g) $100\ 000 - 45\ 789 = 54\ 211$ ✓
- h) $198\ 550 + 1\ 450 = 200\ 000$ ✓

Total 8 / 8

Question 9

- a) The sum of 6 700 and 54 300 is
 $6\ 700 + 54\ 300 = 61\ 000$. ✓
- b) What number is 1 800 less than 5 000?
 $5\ 000 - 1\ 800 = 3\ 200$ ✓
- c) 80 000 more than 120 500
 $= 120\ 500 + 80\ 000 = 200\ 500$ ✓
- d) How much must be added to 24 500 to get 36 000?
 $36\ 000 - 24\ 500 = 11\ 500$ ✓
- e) How much more is four hundred and five thousand Rand than four hundred thousand five hundred Rand?
 $R405\ 000 - R400\ 500 = R4\ 500$ ✓

Total 5 / 5

Question 10

1. When 1 250 is subtracted from a certain number the answer is 1050.

What is the number?

$$\underline{\hspace{2cm}} - 1\ 250 = 1\ 050 \square$$

The number: $1\ 050 + 1\ 250 = \underline{2\ 300}$ ✓

2. The sum of four consecutive numbers is 50.

One of the numbers is 13.

Determine the remaining three numbers.

By testing:

$$\begin{aligned} & 11\checkmark + 12\checkmark + 13 + 14\checkmark \\ & = 23 + 27 \\ & = 50 \end{aligned}$$

Total 4 / 4

Question 11

How many faces does a/an:

- a) cube have? 6 ✓
- b) triangular based pyramid have? 4 ✓
- c) rectangular prism have? 6 ✓
- d) triangular prism have? 5 ✓
- e) square based pyramid have? 5 ✓
- f) hexagonal prism have? 8 ✓
- g) pentagonal prism have? 7 ✓

Total 7 / 7

Question 12

Write equivalent fractions.

a) $\frac{1}{4} = \frac{3}{12}$ ✓

b) $\frac{4}{10} = \frac{2}{5}$ ✓

c) $\frac{2}{3} = \frac{8}{12}$ ✓

d) $\frac{12}{15} = \frac{4}{5}$ ✓

e) $\frac{15}{20} = \frac{3}{4}$ ✓

f) $\frac{1}{3} = \frac{2}{6} = \frac{5}{15}$ ✓

g) $\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$ ✓

Total 7 / 7

Question 13

Write as mixed numbers.

a) $\frac{7}{3} = 2\frac{1}{3}$ ✓

b) $\frac{27}{5} = 5\frac{2}{5}$ ✓

c) $\frac{35}{4} = 8\frac{3}{4}$ ✓

Write as improper fractions.

d) $10\frac{1}{2} = \frac{21}{2}$ ✓

e) $3\frac{5}{6} = \frac{23}{6}$ ✓

f) $7\frac{7}{10} = \frac{77}{10}$ ✓

Total 8 / 8

Question 14

Write in simplest form:

a) $\frac{4}{6} = \frac{2}{3}$ ✓

b) $\frac{4}{8} = \frac{1}{2}$ ✓

c) $\frac{10}{6} = \frac{5}{3} = 1\frac{2}{3}$ ✓ Answer as Mixed number.

d) $\frac{16}{20} = \frac{4}{5}$ ✓

e) $\frac{15}{20} = \frac{3}{4}$ ✓

f) $\frac{30}{20} = \frac{3}{2} = 1\frac{1}{2}$ ✓ Answer as Mixed number.

g) $\frac{15}{40} = \frac{3}{8}$ ✓

Total 8 / 8

Question 15

a) $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$ ✓

b) $\frac{7}{8} - \frac{1}{8} = \frac{6}{8} = \frac{3}{4}$ in simplest form ✓

c) $1 - \frac{1}{10} = \frac{9}{10}$ ✓

d) $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$ ✓

e) $5 - 2\frac{2}{3} = 2\frac{1}{3}$ ✓

f) $2\frac{3}{5} + 3\frac{4}{5} = 5\frac{7}{5} = 6\frac{2}{5}$ ✓

g) $8\frac{11}{12} - 5\frac{8}{12} = 3\frac{3}{12} = 3\frac{1}{4}$ ✓

h) $3\frac{1}{6} - 2\frac{5}{6} = 2\frac{7}{6} - 2\frac{5}{6} = 0\frac{2}{6} = \frac{1}{3}$ ✓

Total 8 / 8

Question 16

a) $\frac{1}{4}$ of 12 = 3 ✓

b) $\frac{2}{3}$ of 12 = 8 ✓

c) $\frac{1}{5}$ of 20 = 4 ✓

d) $\frac{3}{4}$ of 20 = 15 ✓

e) $\frac{1}{3}$ of 150 = 50 ✓

f) $\frac{3}{5}$ of 150 = 90 ✓

g) $\frac{3}{4}$ of 200 = 150 ✓

h) $\frac{1}{8}$ of 200 = 25 ✓

Total 8 / 8

Question 17

- a) 18 apples are shared equally amongst Jane, Jone and Kim.

What fraction of the apples does each girl get? 6 apples each.

Answer: $\frac{6}{18} = \frac{1}{3}$ of the apples. ✓

- b) James has 20 pens.
Six are blue, 10 are black and the rest are red. $20 - 10 - 6 = 4$ red

What fraction of the pens are:

a) blue? $\frac{6}{20} = \frac{3}{10}$ ✓

b) black? $\frac{10}{20} = \frac{1}{2}$ ✓

c) red? $\frac{4}{20} = \frac{1}{5}$ ✓

Total 4 /4

Question 18

- a) Ouma bakes 6 cakes so that if she cuts each cake into eight equals slices, each child will get 1 slice.
How many children are there?

6×8 slices of cakes
 $= 48$ slices thus **48 children.** ✓

- b) There are 300 flowers.
 $\frac{1}{3}$ of the flowers are daisies, $\frac{2}{5}$ are lilies and the rest are roses.

The number of:

a) lilies = $\frac{2}{5}$ of 300 = **120** ✓

b) daisies = $\frac{1}{3}$ of 300 = **100** ✓

c) roses = $300 - 100 - 120 =$ **80** ✓

Total 4 /4

Question 19

- a) $21 \div 3 = 7$ ✓
- b) $35 \div 6 = 5$ rem 5 ✓
- c) $56 \div 8 = 7$ ✓
- d) $65 \div 7 = 9$ rem 2 ✓
- e) Half of 13 = $6\frac{1}{2}$ ✓ [$13 \div 2 = 6$ rem 1]
- f) $\frac{1}{3}$ of 10 = $3\frac{1}{3}$ ✓ [$10 \div 3 = 3$ rem 1]
- g) From which number can 12 be subtracted 7 times?
 $7 \times 12 = 84$ ✓

Total 7 /7

Question 20

Write down all the factors of:

- a) 18. **1, 2, 3, 6, 9, 18** ✓
- b) 24. **1, 2, 3, 4, 6, 8, 12, 24** ✓
- c) 45. **1, 3, 5, 9, 15, 45.** ✓

Write down the first 5 multiples of:

- a) 8. **8, 16, 24, 32, 40.** ✓
- b) 13. **13, 26, 39, 52, 65.** ✓
- c) 25. **25, 50, 75, 100, 125.** ✓

Total 6 /6

Question 21

Fill in the missing numbers:

- a) $12 \div 4 = 3$ ✓
 b) $28 \div 7 = 4$ ✓
 c) $33 \div 8 = 4 \text{ rem } 1$ ✓
 d) $42 \div 6 = 7$ ✓
 e) $48 \div 5 = 9 \text{ rem } 3$ ✓
 f) $72 \div 8 = 9$ ✓
 g) $60 \div 9 = 6 \text{ rem } 6$ ✓

Total 7 / 7

Question 23

- a) $100 \div 5 \div 5 = 20 \div 5 = 4$ ✓
 b) $120 \div 3 \div 5 = 40 \div 5 = 8$ ✓
 c) $240 \div 4 \div 4 = 60 \div 4 = 15$ ✓
 d) $300 \div 3 \div 4 = 100 \div 4 = 25$ ✓
 e) $350 \div 7 \div 2 = 50 \div 2 = 25$ ✓
 f) $420 \div 6 \div 2 = 70 \div 2 = 35$ ✓
 g) $500 \div 5 \div 5 = 100 \div 5 = 20$ ✓
 h) $560 \div 7 \div 5 = 80 \div 5 = 16$ ✓

Total 8 / 8

Question 22

- a) $80 \div 5 = 16$ ✓
 b) $120 \div 3 = 40$ ✓
 c) $100 \div 4 = 25$ ✓
 d) $72 \div 3 = 24$ ✓
 e) $300 \div 6 = 50$ ✓
 f) $125 \div 5 = 25$ ✓
 g) $200 \div 5 = 40$ ✓
 h) $600 \div 4 = 150$ ✓

Total 8 / 8

Question 24

- a) $360 \div 12 = 30$ ✓
 b) $300 \div 15 = 20$ ✓ [$300 \div 3 \div 5$]
 c) $100 \div 25 = 4$ ✓ [$100 \div 5 \div 5$]
 d) $240 \div 16 = 15$ ✓ [$240 \div 4 \div 4$]
 e) $360 \div 24 = 15$ ✓ [$360 \div 6 \div 4$]
 f) $420 \div 12 = 35$ ✓ [$420 \div 6 \div 2$]
 g) $480 \div 32 = 15$ ✓ [$480 \div 8 \div 4$]
 h) $810 \div 18 = 45$ ✓ [$810 \div 9 \div 2$]

Total 8 / 8

Question 25

- Share R90 equally amongst 2 girls and 3 boys. = 5 children
 $R90 \div 5 \text{ children} = R18/\text{child}$ ✓
- The cashier at the soccer game collected R980.
 Each ticket cost R35.
 How many people watched the soccer game?
 $980 \div 35 = 980 \div 7 \div 5 = 28 \text{ ppl}$ ✓
- A bus can transport 12 people.
 How many busses are needed to transport:
 - 70 people? $70 \div 12 = 5 \text{ rem } 10$
6 busses are needed ✓
 - 300 people? $300 \div 12 = 25$
25 busses are needed ✓

Total 4 /4

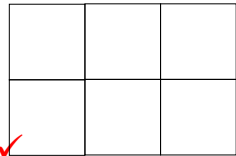
Question 27

True or False?

- $9 + 8 = 8 + 9$ True ✓
- $12 - 5 = 5 - 12$ False ✓
- $7 \times 15 = 15 \times 7$ True ✓
- $40 \div 8 = 8 \div 40$ False ✓
- $30 - (12 - 5) = 13$ False ✓
 $30 - 7 = 23$
- $2 \times 3 \times 4 = 234$ False ✓
 $6 \times 4 = 24$
- $80 \div 5 \div 4 = 80 \div 20$ True ✓
- $120 \div 25 = 120 \div 2 \div 5$ False ✓
 $120 \div 25 = 120 \div 5 \div 5$ because $5 \times 5 = 25$

Total 8 /8

Question 26

- A square has a length of 6cm.
 What is its perimeter?
 $6\text{cm} + 6\text{cm} + 6\text{cm} + 6\text{cm} = 24\text{cm}$
 or $6\text{cm} \times 4 = 24\text{cm}$ ✓
- The perimeter of a rectangle is 24m.
 The length is 8m. What is the width?
 $2 \text{ lengths} = 16\text{m}$
 $2 \text{ widths} = 24\text{m} - 16\text{m} = 8\text{m}$
 $1 \text{ width} = 8\text{m} \div 2 = 4\text{m}$ ✓
- Each block making this rectangle is 1cm by 1cm long. 
 Calculate its:
 - area. 6 square cm ✓
 - perimeter. $6\text{cm} + 4\text{cm} = 10\text{cm}$ ✓

Total 4 /4

Question 28

Complete:

- $8 \times (4 + 5) = 8 \times 9 = 72$ ✓
- $(12 - 5) \times 13 = 7 \times 13 = 91$ ✓
- $(27 + 18) \div 3 = 45 \div 3 = 15$ ✓
- $50 - (60 \div 12) = 50 - 5 = 45$ ✓
- $(80 - 15) \div 5 = 65 \div 5 = 13$ ✓
- $100 - (120 \div 4) = 100 - 30 = 70$ ✓
- $(8 + 5) \times (60 \div 4) = 13 \times 15 = 195$ ✓
- $(9 \times 8) + (8 \times 9) = 72 + 72 = 144$ ✓

Total 8 /8

Question 29

Write a number sentence and then find each answer.

- a) Multiply the difference between 10 and 7 by 4.

$$(10 - 7) \times 4 = 3 \times 4 = 12 \checkmark$$

- b) Subtract 12 from the product of 5 and 8.

$$(5 \times 8) - 12 = 40 - 12 = 28 \checkmark$$

- c) Subtract 10 from the sum of 25 and 15.

$$(25 + 15) - 10 = 40 - 10 = 30 \checkmark$$

- d) Divide the sum of 9 and 6 by 2.

$$(9 + 6) \div 2 = 15 \div 2 = 7\frac{1}{2} \checkmark$$

- e) Subtract the product of 7 and 8 from 100.

$$100 - (7 \times 8) = 100 - 56 = 44 \checkmark$$

Total 5 / 5

Question 31

a) $123 + 321 + 213 = 657 \checkmark$

b) $20\,000 - 15\,950 = 4\,050 \checkmark$

c) $8 \times 12 \times 1 \times 2 = 192 \checkmark$

d) $90 \div 4 = 22 \text{ rem } 2 \checkmark$

e) $\frac{3}{8}$ of 200 = $75 \checkmark$

- f) Calculate the difference between 9×18 and 7×18 .

$$9 \text{ eighteens} - 7 \text{ eighteens} = 2 \text{ eighteens}$$

$$\text{Answer: } 2 \times 18 = 36 \checkmark$$

g) $5\frac{2}{3} = 17 \text{ thirds} \checkmark$ $[5\frac{2}{3} = \frac{17}{3}]$

Total 7 / 7

Question 30

*Fill in the missing numbers.

a) $(2 + 3) \times \underline{12} = 60. \checkmark$
5

b) $30 - (\underline{3} \times 8) = 6. \checkmark$
24

c) $(14 \times 5) \div \underline{10} = 7. \checkmark$
70

d) $\underline{73} - (36 - 17) = 54. \checkmark$
19

e) $(\underline{63} \div 7) \div 2 = 4\frac{1}{2}. \checkmark$
9

f) $20 + (\underline{5} \times 8) = 15 \times 4 = 60 \checkmark$
40

g) $(200 \div \underline{8}) + 5 = 12 + 18 = 30 \checkmark$
25

Total 7 / 7

Question 32

1. Which number sentence is true?

A $\odot - 5 = 5 - \odot$

B $\odot + 1 = \odot \times 1$

C $\odot \times 2 \times 3 = \odot \times 23$

D $\odot \times 1 = 0 + \odot \checkmark$

E $\odot \times 0 = \odot - 0$

2. The product of three consecutive even numbers is 48.

One of the numbers is 4.

Find the other two numbers.

$$\begin{aligned} 2\checkmark \times \underline{4} \times 6\checkmark \\ = 8 \times 6 \\ = 48 \end{aligned}$$

Total 3 / 3