

Grade 6 | Mental Maths | Term 3

Question 1

- a) 2 508 g = kg
- b) $\frac{2}{5}$ kg = g
- c) 1,08 kg = g
- d) $5 \text{ kg} - \frac{3}{4} \text{ kg} = \dots\dots\dots \text{ kg}$
- e) 37g = kg
- f) $\frac{1}{2} \text{ kg} + \frac{1}{5} \text{ kg} + \frac{1}{10} \text{ kg} = \dots\dots\dots \text{ g}$
- g) 23,75 kg = g
- h) $\frac{1}{5}$ of $3\frac{1}{2} \text{ kg} = \dots\dots\dots \text{ kg}$

Total ____ /8

Question 2

- a) $1,5 \text{ kg} \times 3 = \dots\dots\dots \text{ kg}$
- b) $250 \text{ g} \times 8 = \dots\dots\dots \text{ kg}$
- c) $\frac{1}{2} \text{ kg} \div 5 = \dots\dots\dots \text{ g}$
- d) $80 \text{ g} + 0,1 \text{ kg} + 20 \text{ kg} = \dots\dots\dots \text{ kg}$
- e) $2,4 \text{ kg} \div 6 = \dots\dots\dots \text{ g}$
- f) $2\frac{2}{5} \text{ kg} - 0,9 \text{ kg} = \dots\dots\dots \text{ kg}$
- g) $2 \text{ kg} \div 5 = \dots\dots\dots \text{ g}$
- h) g + $\frac{1}{4} \text{ kg} = 1,02 \text{ kg}$

Total ____ /8

Question 3

Complete:

- a) One packet holds 200g of sugar.
How many packets can be filled from a 1kg bag of sugar?
.....
- b) 1 kg of cheese costs R120.
Calculate the cost of:
- i) $\frac{1}{2}$ kg of cheese.
- ii) 700g of cheese.

Total ____ /3

Question 4

Fill in > , < or = to make correct statements.

- a) $1,05 \text{ kg} \dots\dots\dots 150 \text{ g}$
- b) $1,4 \text{ ton} \dots\dots\dots 1500 \text{ kg}$
- c) $500 \text{ g} \dots\dots\dots \frac{1}{4} \text{ kg} + \frac{1}{4} \text{ kg}$
- d) $\frac{1}{5}$ of $1,5 \text{ kg} \dots\dots\dots 0,03 \text{ kg}$
- e) $9,969 \text{ kg} \dots\dots\dots 12 \text{ } 120 \text{ g}$
- f) $3 \text{ kg} + 0,09 \text{ kg} \dots\dots\dots 3900 \text{ g}$

Total ____ /6

Question 5

Write down the value of each underlined digit.

- a) $\underline{7}$ 59 236
- b) 3 125 689
- c) 18 576 632
- d) 623 013 820

Complete:

Forty five million, nine hundred thousand, eight hundred and twelve is written...

Answer:

Total ____ /5

Question 6

The number which is:

- a) 4 Th more than 3 695 836 is
.....
- b) 7 million less than 12 439 057 is
.....
- c) 3 HTh more than 3 850 000 is
.....
- d) 15 million less than 220 159 874 is
.....

Total ____ /4

Question 7

Write in short form.

- a) $500\,000 + 2\,000\,000 + 8\,000$
=
- b) $5 \times 10^6 + 4 \times 10^2 + 6 \times 10^4$
=
- c) $(9 \times 10\,000) + (8 \times 10) + (9 \times 10)$
=
- d) $2H + 5TTh + 6U + 14M$
=

Total ____ /4

Question 8

Round off to the nearest 10:

- a) $38\,726 \approx$
- b) $835\,295 \approx$
- c) $17\,058\,173 \approx$

Round off to the nearest 10 000:

- a) $18\,896 \approx$
- b) $452\,822 \approx$
- c) $9\,396\,121 \approx$

Total ____ /6

Question 9

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

- a) 696 689 696 698
- b) 46 100 $46 \times 10 \times 10$
- c) $1\,338\,838 \times 1$ $1\,338\,838 \div 1$
- d) $10M + 9HTh$ 1 900 000
- e) $200\,000 + 60$ $90\,000 + 8\,000$
- f) $\frac{1}{2}$ of 3 million 1 500 000
- g) $\frac{3}{4}$ of 1 million 340 000

Total ____ /7

Question 10

1. The prime numbers between

- a) 0 and 10 are
- b) 10 and 20 are
- c) 30 and 40 are

2. Write down the prime factor(s) of each number.

- a) 10.
- b) 12.
- c) 45.

Total ____ /6

Question 11

- a) $7\,500 + 600 =$
- b) $20\,500 + 2\,500 =$
- c) $2\,580 + 1\,580 =$
- d) $20\,500 + 10\,500 =$
- e) $25\,000 + 52\,000 =$
- f) $205\,000 + 7\,000 =$
- g) $205\,080 + 55\,020 =$
- h) $205\,450 + 207\,550 =$

Total ____ /8

Question 12

- a) $250 +$ $= 340$
- b) $145 +$ $= 220$
- c) $2\,250 +$ $= 3\,000$
- d) $+ 950 = 1\,600$
- e) $+ 20\,200 = 51\,000$
- f) $95\,000 +$ $= 100\,750$
- g) $+ 82\,000 = 139\,000$
- h) $323\,323 +$ $= 400\,000$

Total ____ /8

Question 13

- a) $250 - 80 - 3 = \dots\dots\dots$
- b) $1\ 000 - 150 - 25 = \dots\dots\dots$
- c) $2\ 500 - 700 - 75 = \dots\dots\dots$
- d) $13\ 000 - 6\ 000 - 250 = \dots\dots\dots$
- e) $42\ 800 - 3\ 800 - 800 = \dots\dots\dots$
- f) $32\ 250 - 5\ 250 - 500 = \dots\dots\dots$
- g) $100\ 000 - 35\ 000 - 3\ 500 = \dots\dots\dots$
- h) $150\ 000 - 70\ 000 - 7\ 700 = \dots\dots\dots$

Total ____ /8

Question 14

- a) $105 - \dots\dots\dots = 54$
- b) $820 - \dots\dots\dots = 765$
- c) $\dots\dots\dots - 220 = 1\ 780$
- d) $4\ 000 - \dots\dots\dots = 2\ 500$
- e) $10\ 000 - \dots\dots\dots = 915$
- f) $\dots\dots\dots - 8\ 000 = 17\ 500$
- g) $125\ 450 - \dots\dots\dots = 90\ 450$
- h) $\dots\dots\dots - 14\ 400 = 190\ 000$

Total ____ /8

Question 15

Write a number sentence to show how you find each answer.

- a) Add 9 to the difference between 15 and 7.
.....
- b) Subtract 999 from the sum of 2 500 and 1 500.
.....

Consider the number 16 740 503.

The sum of the values of the 6, 4 and 3 is

Total ____ /3

Question 16

Complete:

- a) $18\ 643 \approx \dots\dots\dots$
rounded off to the nearest 5.
- b) How many 125g sugar sachets can be filled from a 1kg bag of sugar?
.....
- c) The largest 2-digit prime number is
- d) The sum of two consecutive numbers is 387.
What are the two numbers?
.....

Total ____ /4

Question 17

Complete:

- a) The sum of three numbers is 645 772.

Two of the numbers are 236 407 and 198 854.

Find the third number.

.....

- b) How much less is 758 000 than 1 500 000?

.....

- c) Write 18 250 065 in words.

.....

.....

Total ____ /3

Question 18

- a) The temperature is 15°C.

It rises by 16°C.

New temperature =

- b) The temperature is 8°C.

It drops by 12°C.

New temperature =

- c) The temperature is -5°C.

It rises by 13°C.

New temperature =

- *d) The temperature is 15°C.

It drops by 30°C.

New temperature =

Total ____ /4

Question 19

Write each fraction as a percentage.

a) $\frac{1}{5} = \dots\dots\dots$

b) $\frac{3}{4} = \dots\dots\dots$

c) $\frac{1}{8} = \dots\dots\dots$

d) $\frac{24}{25} = \dots\dots\dots$

e) $\frac{1}{2} = \dots\dots\dots$

f) $\frac{3}{20} = \dots\dots\dots$

g) $\frac{9,2}{10} = \dots\dots\dots$

Total ____ /7

Question 20

Write each % as a fraction, in the simplest form.

a) 12 % =

b) 5 % =

c) 67 % =

d) 25 % =

e) 32 % =

f) 35 % =

g) 98 % =

Total ____ /7

Question 21

10% of 45 =

50% of 130 =

25% of 600 =

1% of 4 800 =

30% of 80 =

15% of 2 400 =

92% of 150 =

5% of 4 260 =

Total ____ /8

Question 22

a) James spends 85% of his money.
What % of his money is left?

.....

b) Sia spends 60% of R200 on food
and 25% of the remaining
money on juice. How much
money does she have left?

.....

c) There are 160 learners in
Gr 6 of which 55% are girls.
How many learners are boys?

.....

Total ____ /3

Question 23

Fill in the missing numbers.

a) $(3 + 5) \times \dots = 32$.

b) $20 - (\dots \times 6) = 2$.

c) $(12 \times 5) \div \dots = 15$.

d) $85 - (26 - 19) = \dots$

e) $(\dots \div 5) \div 4 = 2$.

f) $9 + (\dots \times 6) = 15 \times 3$

g) $(200 \div \dots) + 2 = 80 - 28$

Total ____ /7

Question 24

Complete each number pattern.

a) 14 ; 26 ; 38 ; ;

b) 40 ; 20 ; 10 ; ;

c) 2 ; 3 ; 6 ; 11 ; ;

d) 3 ; 9 ; 27 ; ;

e) 169 ; 144 ; 121 ; 100 ; ;

f) 310 ; 285 ; 260 ; ;

g) 200 ; 190 ; 170 ; 140 ; ;

Total ____ /7

Question 25

- a) 40 km = m
- b) 6,8 cm = mm
- c) 350 m = km
- d) 12 m = cm
- e) 12,08 km = m
- f) 300 mm = cm
- g) 1 km = cm
- h) 25 cm = m

Total ____ /8

Question 26

- a) $\frac{1}{2}$ km = m
- b) $1\frac{1}{4}$ km = m
- c) $\frac{3}{4}$ m = cm
- d) $\frac{1}{2}$ m + 15cm = cm
- e) $2,1$ km - $\frac{1}{4}$ km = km
- f) 5mm + 15mm + 25mm
= cm
- g) $\frac{4}{5}$ km + m = 0,95 km
- h) $1\frac{1}{2}$ km - km = $\frac{1}{5}$ km

Total ____ /8

Question 27

Complete:

1. Mom walks 3,5 km every day.
- a) How far does Mom walk in 4 days?
.....
- b) How far does Mom walk in 10 days?
.....
2. A three metre plank of wood is cut into eight equal pieces.
- How long is each piece of wood?

Answer in mm:

Answer in cm:

Total ____ /4

Question 28

Complete:

- a) How many pieces of string, each 25cm long, can be cut from a 1,75m roll of string?
.....
- b) Mr Smith travels at 120km/h. What distance does he cover in 15 minutes?
.....
- c) Satin costs R180/m. How much will you pay for $2\frac{1}{4}$ m?
.....

Total ____ /3

Question 29

- a) 3,2 kg =g
- b) 0,001 kg = g
- c) Half a kg = g
- d) $1\ 000 \div 5 = \dots\dots\dots$
- e) $1\ 000 \div 125 = \dots\dots\dots$
- f) 1 056 kg =t
- g) $4 \times 10^5 = \dots\dots\dots$
- h) $242\ 500 + 600 = \dots\dots\dots$

Total ____ /8

Question 30

- a) $95 + 35 = \dots\dots\dots$
- b) $820 - 250 = \dots\dots\dots$
- c) $136 + 115 = \dots\dots\dots$
- d) $123 + 87 - 18$
=
- e) $17^\circ\text{C} - 40^\circ\text{C} = \dots\dots\dots$
- f) 1 twentieth =%
- g) 20% of 40 =
- h) 70% of 120 =

Total ____ /8

Question 31

Fill in the missing numbers.

- a) $(3 + 5) \times \dots\dots\dots = 80$
- b) $200 - (\dots\dots\dots \times 6) = 20$
- c) $(13 \times 5) + \dots\dots\dots = 85$
- d) $800 - (260 - 190) = \dots\dots\dots$
- *e) $(\dots\dots\dots \div 8) \div 11 = 4\ \text{r}\ 6$
- f) $28 + (\dots\dots\dots \times 6) = 25 \times 4$
- g) $(2\ 000 \div 4) \times 0 = \dots\dots\dots - 28$

Total ____ /7

Question 32

- a) $(5 \times 20) - 12$
=
- b) $(56 \div 8) + 22$
=
- c) $13 \times 13 = \dots\dots\dots$
- d) $15 \times 15 = \dots\dots\dots$
- e) 75 mm =m
- f) 400 000 cm = km
- g) $2,4\text{km} \times 2 = \dots\dots\dots\text{km}$
- h) $1,5\text{m} \div 3$
=

Total ____ /8