Name:_____ Class:_____

- Complete all answers on this question paper.
- Calculators may not be used.

1. Which number is the arrow pointing to on the number line?
Tick the correct option.

☐ 9,47 ☐ 9,6 ☐ 9,85 ☐ 9,15 (1)

2. Which position best indicates 66 000 on the number line? *Tick the correct option.*

☐ A ☐ B ☐ C ☐ D (1)

3. Complete. *Fill in the answer only.*

a) 47 000 + _____ = 100 000 (1)

b) 76 × 5 = _____ (1)

c) _____ = 70 × 90 (1)

d) 3000 × _____ = 36 000 (1)

e) 3200 ÷ 8 = _____ (1)

f) 18 000 – 9 900 = _____ (1)

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g) R10 – R_____ = R3,68 (1)

h) 5,24 + 0,07 = _____ (1)

i) $\frac{1}{5}$ of $\frac{1}{6}$ = _____ (1)

4. Calculate. *Show your working.*

a) 15 × 36

(2)

b) 1 812 ÷ 6

(2)

c) $1 - \frac{1}{4} - \frac{1}{8}$

(2)

5. Write $\frac{9}{100}$ as a decimal fraction. (1)

6. Write $\frac{1}{5}$ as a percentage. (1)

7. Which is the larger fraction. *Tick the correct option.*

☐ $4\frac{2}{5}$ ☐ $4\frac{1}{2}$ ☐ They are equal. (1)

8. Neo gave Thato $\frac{1}{7}$ of his Smarties. He gave Ryan $\frac{2}{7}$ of his Smarties. He now has 32 Smarties left. How many Smarties did Neo start with? *Show your working.*

_____ Smarties (2)

9. Gabriella bought 100 marbles in 4 days. If she bought 8 more marbles than the day before, how many marbles did she buy on the first day? *Show your working.*

_____ marbles (2)

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10. Zoe makes pictures with grey and black tiles like this. The first three pictures make a pattern.

Picture 1 Picture 2 Picture 3

Picture number	1	2	3	4	5
Grey tiles	8	12	16	A	24
Black tiles	1	4	9	16	B
Total tiles	9	16	25	36	49

a) Determine the missing values for A and B in the table.

A: _____

B: _____ (2)

b) Which picture number will have a total of 100 tiles? *Show your working.*

Picture _____ (2)

11. A pattern of numbers is entered as input into this flow diagram. If the output numbers increase by 30 each time, what would the input numbers increase by?

(1)

12. What is the name of the object which has this net? *Tick the correct option.*

- ☐ Cone
- ☐ Cube
- ☐ Rectangular prism
- ☐ Cylinder

(1)

13. How many lines of symmetry does the picture have?

(1)

14. What is the name of the object?

(1)

15. On the square grid, draw the front view of this arrangment of blocks.

(1)

16. How many edges does the object have?

_____ edges

(1)

17. Which image does NOT have an area of 4 squares? *Tick the correct option.*

☐ A ☐ B ☐ C

(1)

18. What properties are the same in both a rectangular prism and a cube? *Tick the correct options.*

- ☐ All faces are equal in size.
- ☐ The object has 12 edges.
- ☐ All the faces are square.
- ☐ The object has 8 vertices. (2)

19. Write the number that makes the sides equal.

4,05 kg = _____ g (1)

20. Ayanda uses 3,4 m of material for one dress. How much material will she need for 5 dresses? *Show your working.*

_____m (2)

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21.

a) Determine the perimeter of the shape. *Show your working.*

_____cm (2)

b) Determine the area of the shape. *Show your working.*

_____cm^2 (2)

22. How many blocks which are 5 mm by 5 mm by 5 mm can fit into a container that is 1 cm by 1 cm by 1 cm? *Show your working.*

_____ blocks (2)

23. The graph shows the temperature in Benoni for 16 March.

a) What was the temperature at 9 am?

_____°C (1)

b) What was the temperature at 2 pm?

_____°C (1)

c) How long did it take for the temperature to go from its lowest to highest point?

_____ hours (1)

d) Which is the correct statement based on the data? *Tick the correct option.*

☐ The temperature stays constant from 00:00 to 04:00.

☐ The temperature decreases during the daytime and increases during the night.

☐ The temperature stays constant from 20:00 to 24:00.

☐ The temperature peaks in the morning. (1)