Name:_____ Class:_____

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

1. What is the number that the arrow is pointing to on the number line? *Tick the correct option.*

☐ $\frac{5}{9}$ ☐ $1\frac{13}{15}$ ☐ $\frac{5}{12}$ ☐ $1\frac{1}{4}$ (1)

2. Write the number five hundred and seven thousand.

(1)

3. Which number is NOT a factor of 30? *Tick the correct option.*

☐ 3 ☐ 4 ☐ 10 ☐ 15 (1)

4. Write $\frac{6}{8}$ as a decimal fraction. (1)

5. Which number is smaller, $\frac{3}{7}$ or $\frac{5}{9}$? *Give a reason for your answer.* (2)

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

a) Double 55 000 = _____ (1)

b) _____ = 18 000 – 5 (1)

c) 335 + 21 + 39= _____ (1)

d) 700 000 = 410 000 + _____ (1)

e) 600 × _____ = 300 000 (1)

f) $\frac{7}{100} + \frac{7}{10} + 7 =$_____ (*Write your answer as a decimal fraction.*) (1)

g) _____ = 0,8 + 0,02 (1)

7. Calculate. *Show your working.*

a) 1 064 ÷ 4

(2)

b) $\frac{1}{4} + \frac{4}{12}$

(2)

c) $\frac{6}{10} \times 3$

(2)

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8. Lesego makes a large round candle using $1\frac{1}{4}$ of an ordinary candle.

   a) How many ordinary candles should she buy to make 20 large round candles? *Show your working.*

   _____ordinary candles (2)

   b) How many large round candles can she make if she has 20 ordinary candles? *Show your working.*

   _____large round candles (2)

9. Jessica's parents gave her some money. She spent $\frac{1}{4}$ of her money on a video game. She then spent $\frac{1}{4}$ of what she had left on clothes. She spent the last R90 on chocolate. How much money did her parents give her? *Show your working.*

   R_____ (2)

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10. Karabo makes pictures with grey and white 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	3	6	9	A	15
White tiles	12	14	16	18	B
Total tiles	15	20	25	30	35

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

A:_____

B:_____ (2)

b) Which picture number will have a total of 50 tiles? Explain your answer.

Picture_____ (2)

c) Complete the rules in the flow diagram to give the formula that calculates the number of white tiles in any picture.

Picture number → [ ] → [ ] → Number of white tiles

(2)

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11. a) What 3-D object will this net make when folded? *Tick the correct option.*

- ☐ Pentagonal-based prism
- ☐ Pentagonal-based pyramid
- ☐ Pentagon
- ☐ Rectangular-based prism (1)

b) How many edges does the 3-D object made from this net have?

_____edges (1)

12. Which shapes have <u>no</u> lines of symmetry? *Tick all the correct options.*

☐ A ☐ B ☐ C ☐ D (1)

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13. The angles of the regular pentagon are all …

Tick the option that correctly completes this sentence.

☐ acute ☐ obtuse

☐ right ☐ reflex (1)

14. If this net is folded to make a cube, which face will be opposite X? *Tick the correct option.*

☐ A ☐ B

☐ C ☐ D ☐ E (1)

15. On the square grid, draw the view of the object seen from A.

(1)

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16. Complete the enlargement of the triangle.

(1)

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

a) 8509 ml = _____ litres (1)

b) 4 millennia + 9 centuries + 2 decades = _____ years (1)

18. Tick the most likely capacity of a bucket.

☐ 4 metres ☐ 400 millilitres

☐ 4 kilolitres ☐ 10 litres (1)

19. Johannesburg is 2 hours ahead of the Coordinated Universal Time (UTC). New York is 5 hours behind UTC. When it is 07:00 in New York, what is the time in Johannesburg? *Show your working.*

(2)

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20. One small block is 1 cubic centimetre. Determine how many cubic centimetres are needed to fill the large box.

_____cm^3 (1)

21. A rugby game starts at 14:58. There is a half time break of 16 minutes and injury stops of half the amount of time as the break. If the game ends at 16:07, how long did they actually play for? *Show your working.*

_____minutes (2)

22. The children at Jupiter Primary were asked to pick their favourite meal. Their results are summarised in the pie graph.

a) What fraction of the children picked pizza as their favourite meal?

(1)

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b) What percentage of the children picked fish & chips as their favourite meal?

(1)

c) There are 550 children at Jupiter Primary. How many children picked a hamburger as their favourite meal? *Show your working.*

_____children (2)

d) Tick the statement that correctly describes the data.

- ☐ More than half the children at Jupiter Primary picked pizza as their favourite meal.
- ☐ Double the number of children picked pizza compared to a hamburger.
- ☐ 3-quarters of the number of children who picked pizza as their favourite, picked a hamburger as their favourite .
- ☐ Half of the number of children who picked hamburger picked a fish & chips as their favourite. (1)

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