



Subject: Grade 5 Mathematics

Topic: Mathematics: Term 1 - Mini-Exam

Total: 80 Marks

1. false

2 marks

Explanation:

To make the smallest number, start with the smallest digit. In this case the smallest digit is 1.

The next smallest digit is 3, so 3 is placed second, followed by 5, and then by 7.

The smallest number that can be made is 1 357.

2. purple | red

4 marks

Explanation:

Look carefully at the pie chart.

Purple occupies the largest portion of the pie chart and red occupies the smallest part of the pie graph.

3. D: 200 000

4 marks

Explanation:

The number 2 is in the hundred thousands notation column.

Therefore, $2 \times 100\,000 = 200\,000$



Explanation:

When the denominator of a fraction is an odd number, it is difficult to compare that fraction to $\frac{1}{2}$.

To make the comparison easier, rewrite the fraction with an even denominator.

$$\frac{3}{9} = \frac{6}{18}$$

$$\frac{1}{2} = \frac{9}{18}$$

$$\frac{6}{8} < \frac{9}{18}$$

$\therefore 4\frac{3}{9}$ becomes 4.

$$\frac{6}{11} = \frac{12}{22}$$

$$\frac{1}{2} = \frac{11}{22}$$

$$\frac{12}{22} > \frac{11}{22}$$

$\therefore 6\frac{6}{11}$ becomes 7.

5. 0,09 | 0,007

4 marks

Explanation:

Find the place value of every digit:

10,000

8,000

0,300

0,090

+ 0,007

= 18,397

Therefore:

$$18,397 = 10 + 8 + 0,3 + 0,09 + 0,007$$

6. 4 | four

3 marks

Explanation:

A rectangular prism has 6 faces. 2 are squares and the other 4 are rectangles.

7. 950 | nine hundred and fifty

3 marks

Explanation:

We need to **add all the cans** indicated on the graph together.

$$100 + 300 + 150 + 200 + 150 + 50 = 950$$

8. false

2 marks

Explanation:

Together they are 6 children (Sam + 5 friends).

Therefore:

$$42 \div 6 = 7$$

9. false

2 marks

Explanation:

$$\text{Fifty nine hundredths} = \frac{59}{100} = 0,59$$

10. C: $47\ 000 \div 10$

4 marks

Explanation:

$$47\ 300 \div 10 = 4\ 730$$

$$500 \times 10 = 5\ 000$$

$$47\ 000 \div 10 = 4\ 700$$

$$474 \times 10 = 4\ 740$$

4 700 is the only number which 4 703 is bigger than.

11. true

2 marks

Explanation:

346 is closer to 350 than 340.

12. D: 48

4 marks

Explanation:

To calculate how long it takes to run 1 km:

$$30 \div 5 = 6 \text{ minutes per km}$$

To calculate how long it will take to run 8 km:

$$8 \times 6 = 48 \text{ minutes}$$

13. false

2 marks

Explanation:

$$48 - 7 - 5 = 36$$

There are 36 cupcakes left.

14. $45 \mid 9$

4 marks

Explanation:

$$3 \text{ tablespoons: } 3 \times 15 \text{ ml} = 45 \text{ ml}$$

$$\text{To determine the number of teaspoons: } 45 \text{ ml} \div 5 \text{ ml} = 9$$

15. A: 9 932

4 marks

Explanation:

$$9 \text{ thousands} = 9\ 000$$

$$8 \text{ hundreds} = 800$$

$$13 \text{ tens} = 130$$

$$2 \text{ units} = 2$$

Therefore:

$$9\ 000 + 800 + 130 + 2 = 9\ 932$$

16. 23:20

3 marks

Explanation:

20 past 11 in the evening: $12:00 + 11 \text{ h } 20 \text{ min}$
 $= 12 \text{ h} + 11 \text{ h } 20 \text{ min}$
 $= 23 \text{ h } 20 \text{ min}$
 $= 23:20$

17. B: $830 \div 25 = 33$ packets

4 marks

Explanation:

$830 \div 25 = 33 \text{ rem } 5$

Therefore, only 33 packets are filled.

5 boxes of Smarties are left.

18. 3 450

3 marks

Explanation:

There are 1 000 *ml* in 1 *l*.

Therefore:

$3,45 \times 1\,000 = 3\,450 \text{ ml}$

19. false

2 marks

Explanation:

$F_{32} \{1; 2; 4; 8; 16; 32\}$

The number 32 has 6 factors.

20. 4 | 45

4 marks

Explanation:

$60 + 60 + 60 + 60 = 240$ (4 minutes)

$285 - 240 = 45$ (seconds)

21. 16 | sixteen

3 marks

Explanation:

Bottom layer: 10 blocks

Middle layer: 4 blocks

Top layer: 2 blocks

$10 + 4 + 2 = 16$

22. true

2 marks

Explanation:

If the numerator is half or more of the denominator, the fraction becomes a whole when rounded off to the nearest whole.

23. 551 - 387 | 551 km - 387 km

3 marks

Explanation:

To find out how far you must still drive, subtract the distance already driven, from the total distance between the two towns.

$$\begin{aligned}x &= 551 \text{ km} - 387 \text{ km} \\ &= 164 \text{ km}\end{aligned}$$

24. 3 000 | 400

4 marks

Explanation:

This number consists of 6 ten thousands, 3 thousands, 4 hundreds, 9 tens and 2 ones.

25. C: 1, 2, 3, 4, 6, 12

4 marks

Explanation:

$$\begin{aligned}12 \div 1 &= 12 \\ 12 \div 2 &= 6 \\ 12 \div 3 &= 4 \\ 12 \div 4 &= 3 \\ 12 \div 6 &= 2 \\ 12 \div 12 &= 1\end{aligned}$$

Total: 80 Marks