



PUMA MATH CONTEST
2017

MATH CONTEST – Model Paper 2017

Grade 4

Duration: 2 Hours.

Student's Index Number: _____

Instructions

1. Do not open the contest booklet until you are told to do so.
2. Electronic devices (Calculators, mobile phone ..) are not permitted
3. Please use pen to write the answer.
4. You may use rulers, compasses and paper for rough work.
5. When your supervisor instructs you to start, you will have 2 hours of working time.
6. Scoring: Total 100 points; three are three parts, Part A. is worth 45 Marks, Part B, is worth 30 Marks and Part C, is worth 25 marks.

FOR MORE INFORMATION:

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Grade 4 Math Contest

Part A: Each correct answer is worth 1 point [Total of 45 points]

1. Multiplication (10 Marks)

$$\begin{array}{r} 48 \\ \times 3 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 357 \\ \times 6 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 35 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 457 \\ \times 37 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 106 \\ \times 8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 2150 \\ \times 7 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 9085 \\ \times 4 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 795 \\ \times 15 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 9047 \\ \times 8 \\ \hline \hline \end{array}$$

$$\begin{array}{r} 8756 \\ \times 10 \\ \hline \hline \end{array}$$

2. Division (10 marks)

$57 \div 4$

$345 \div 8$

$247 \div 6$

$3470 \div 7$

$2707 \div 9$

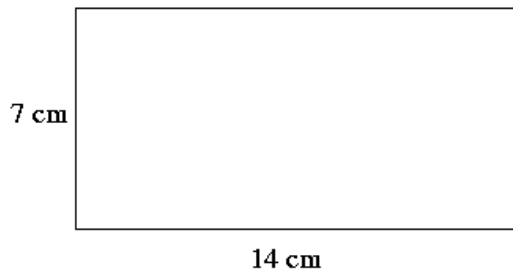
3. Write in numbers (10 Marks)

- Two thousand six
- Five thousand six hundred twenty five
- Twenty thousand six hundred
- Nine thousand none
- Seventy thousand
- One and five tenths
- Twenty five hundredths
- Hundred and one tenths
- Twenty six thousandths
- One hundredths

4. Rounding to the nearest value (10 Marks)

- a. 265 (nearest hundred) = _____
- b. 26364 (nearest thousand) = _____
- c. 16936 (nearest ten thousand) = _____
- d. 999 (nearest hundred) = _____
- e. 7636 (nearest ten) = _____
- f. 1567 (nearest hundred) = _____
- g. 7636 (nearest hundred) = _____
- h. 9999 (nearest Thousand) = _____
- i. 9999 (nearest hundred) = _____
- j. 46375 (nearest ten) = _____

5. Perimeter area of rectangle and square (5 marks)



- a. What is the area of the above rectangle?
- b. What is the perimeter of the above rectangle?
- c. What is the length of the rectangle if the area of the rectangle is double and width of the rectangle remains same? (3 marks)

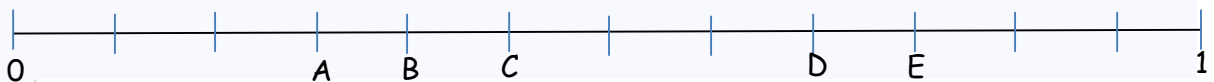
6. Units conversions

- a. 6Kg = _____ g
- b. 5500g= _____ Kg
- c. 600cm = _____ m
- d. 1.5m = _____ mm
- e. $360 \text{ cm}^2 = \text{_____ m}^2$

Part B: Each correct answer is worth 3 points [Total of 30 points]

7. What year will it be a century from 2015?
8. One farm has 3180 chickens and another has 960 chickens. Estimate how many chickens there are altogether. Show your steps.
9. How many rectangles could you have with an area of 64 cm^2 ?
10. Matt buys a crate that contains 12 juice-boxes. Each juice-box has a capacity of 250mL. There is no wasted space between the juice boxes. What is the volume of the crate?
11. Kamaya is picking cherries. She picks three cherries from each plant. There are 10 plants in each row. In total, there are two rows.
 - a) How many cherries does Kamaya pick from each row?
 - b) How many cherries does Kamaya pick in total?

12. The diagram below shows the number line from 0 to 1 divided into 12 equal parts.



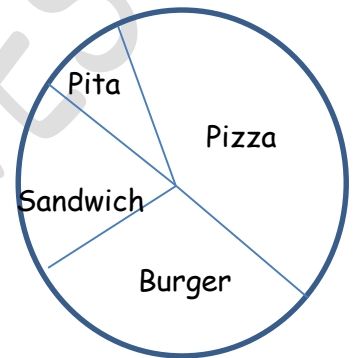
What letter makes the fraction $\frac{1}{4}$?

13. There are 7 students in Ms. Barker's class. There are 3 boys, and 4 girls. What is the ratio of girls to boys? Express it as a fraction.

14. Miss Katter's students were asked about their favourite food. Their opinions are shown in the circle graph at the right.

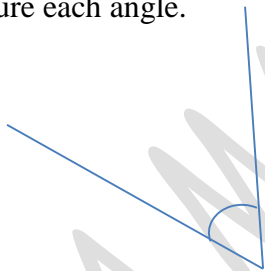
a) Which food is the least favourite?

b) Which food is preferred by most of the students?

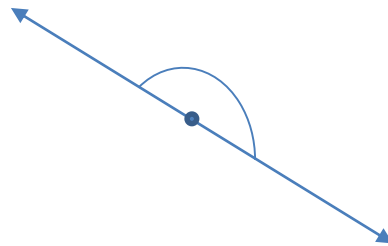


15. Measure each angle.

a)



b)



16. What is 3567 rounded to the nearest thousand, hundred and ten? Write the number in words.

Part C: Each correct answer is worth 5 points [Total of 25 points]

17. Last winter, Sonya swam on five different weekends. He skied for six hours, eight hours, eleven hours, seven hours, and eight hours on those weekends. In total, Sonya swam:

(a) _____ hours.

(b) _____ day(s) and _____ hours.

18. The perimeter of a square is 36 cm^2 . What is its area?

19. The sum of Sunil's and his dad's age is 55 years. His dad is quadruple Sunil's age. How old are they?

20. Julia is navigating on the internet to buy some Justin Bieber's signature cards for her friends and herself. If she were to buy 5 cards, she would have \$2.50 left over, and if she were to buy 7 cards, she would have to borrow \$4.50. How much does one card cost?

21. A set contains five different numbers. Use the clues to determine these numbers.

- I. The range of these numbers is 11.
- II. The median of these numbers is 6.
- III. The range below the median is 5.
- IV. The median of the three smallest numbers is 5.
- V. If we remove the largest number, the range of the remaining numbers is 8.

From smallest to largest, the numbers are: _____