

Name: _____ Date: _____

1. a) Write these numbers in order from lowest value to highest value.

312 700	700 101	304 985	17 020

- b) Complete these comparisons using each of the numbers above only once.

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	>	

2. Complete this calculation using the column addition method.

	9	0	3	5	4
+	4	5	7	3	7

3. Using mental methods, complete these calculations.

$$\frac{5}{8} + \frac{2}{8} = \frac{\boxed{}}{\boxed{}}$$

$$\frac{2}{8} + \frac{7}{8} = \frac{\boxed{}}{\boxed{}}$$

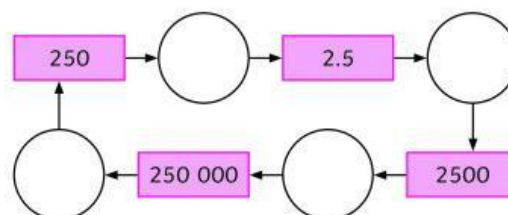
$$\frac{7}{9} - \frac{3}{9} = \frac{\boxed{}}{\boxed{}}$$

$$2\frac{6}{9} - \frac{7}{9} = \frac{\boxed{}}{\boxed{}}$$



4. Look at the operations given below. Choose the correct one to go in each of the empty circles in the diagram.

$\times 10$ $\times 100$ $\times 1000$ $\div 10$ $\div 100$ $\div 1000$



5. When written using Roman numerals, the year 2000 is written as MM. These years have been written using Roman numerals. Put them in order from the earliest to the latest year.

MMXXIII MCM MDCC MMXX

earliest $\longrightarrow$ latest

1 mark

6. Which of these calculations would be easier to add mentally? Circle your answer.

$535\ 876 + 24\ 568 = \boxed{?}$

$\boxed{?} = 535\ 000 + 24\ 308$

Calculate the answer to the question you have chosen using **mental methods only** and write it below.



1 mark

7. Order these fractions from smallest to greatest.

$\frac{3}{4}$ $\frac{1}{6}$ $\frac{3}{12}$ $\frac{2}{3}$

$\longrightarrow$

ascending order

1 mark

8. Here is a number: 751 204

Write down the number that is:

ten thousand more

one thousand less

one hundred thousand less

thirty thousand more

five hundred thousand less

four hundred more

2 marks

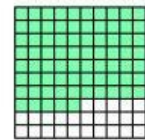
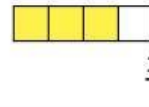
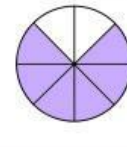
9. Complete this calculation using the column subtraction method.

	5	8	0	6	2	5
-		4	7	3	4	6

1 mark

1 mark

10. a) Complete the equivalent fractions represented by the diagrams.



$$\frac{8}{10} \quad \frac{15}{20} \quad \frac{18}{25} \quad \frac{12}{16} \quad \frac{9}{12}$$

Fractions Equivalent to the Ones Shown Above	Fractions Not Equivalent to the Ones Shown Above

- 12 6 8 7 2 4

- [illegible]

- 51 819

Round the number to the nearest:

10 10 000

100 _____ 100 000 _____

1000 _____

14. Each section of this Carroll diagram contains one of the numbers given below. Write each number in the correct place. The first one has been done for you.

100	48	9	70	64	21
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	Multiples of 3	Multiples of 8	Multiples of 10
Square Number			100
Not a Square Number			

15. 8949 runners took part in the marathon race and 18 704 took part in the half-marathon race.

a) How many runners were there altogether?

b) When both races had finished 2854 runners had run a personal best time. How many runners **did not** achieve a personal best?



16. Use addition or subtraction to complete the calculations.

$$\frac{9}{10} - \frac{3}{5} = \frac{\boxed{}}{\boxed{}}$$

$$3\frac{3}{8} - \frac{3}{4} = \frac{\boxed{}}{\boxed{}}$$

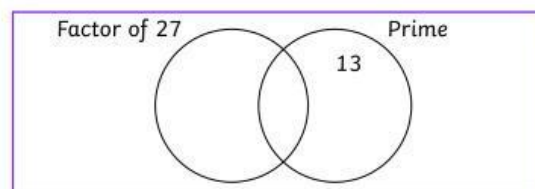
$$\frac{2}{3} + \frac{4}{12} + \frac{2}{6} = \frac{\boxed{}}{\boxed{}} \text{ or } \frac{\boxed{}}{\boxed{}}$$

17. Draw lines to match each calculation to the correct answer.

$9^2 - 7^2$	39
$3^3 + 5^2$	45
$4^3 - 5^2$	52
$6^2 + 3^2$	32

18. Complete this Venn diagram using all of the numbers below. One has already been done for you.

13 9 17 3 12



19. Complete the table, writing the answer to each calculation in both forms.



	Improper Fractions	Mixed Numbers
		$1\frac{2}{5}$
	$\frac{16}{3}$	
	$\frac{6}{8} + \frac{7}{8} =$	$\frac{13}{8}$
	$\frac{19}{4}$	

- 20.** This table shows how many people went on the pirate ship and rollercoaster rides at a theme park over three months.

	June	July	August
Pirate Ship	16 780	40 608	120 060
Rollercoaster	27 560	54 050	149 000

How many more people went on the rollercoaster than the pirate ship over the three months?

A 10x10 grid of squares, with a small empty square box to its right.

- 21.** Follow the clues to create a six-digit number using only the digits from the cards.

A horizontal array of six red squares, each containing a number. The numbers from left to right are 5, 7, 3, 1, 6, and 4.

- It is an even number.
- The ten thousands digit is double the thousands digit.
- It rounds to 800 000 when rounded to the nearest hundred thousand.
- The hundreds digit is the digit card with the lowest value.

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