### Homework

### Friday 26<sup>th</sup> April 2024

Please complete the following:

| English     | ReadingRead at home on at least three separate occasions and record in your reading diary.These must be handed in daily to be signed.SpellingsPractise your spellings. These will be uploaded on Spelling shed too. You will have a<br>test on Friday. |  |
|-------------|--|--|
| Mathematics | MAIN HOMEWORK:   |  |
|             | 1) Fractions, decimals and percentages   |  |
|             | worksheets   |  |
|             | And  |  |
|             | 2) Number and Place Value  |  |
|             | worksheets.  |  |
| Other       | Read over any previous past papers you have been given over the last few<br>months and revise anything you have struggled with. Look up any key<br>concepts that you are not confident with on the following websites.                                 |  |
|             | Revision Websites:<br>https://www.bbc.co.uk/bitesize/subjects/zv48q6f/year/zncsscw<br>https://ttrockstars.com/   |  |
|             | https://myminimaths.co.uk/year-6-mini-maths/<br>https://mathsframe.co.uk/  |  |
|             | Year 3/4&5/6 word lists<br>Don't forget to keep reviewing the word lists and practise the words you are<br>unfamiliar with. As well as being useful to include in your writing, these words may<br>pop up in the SATs test                             |  |

If you need any further guidance on how to complete the tasks, please ask! Don't leave it until Wednesday!

Remember, have a go and try your best!

1. Simplify these fractions as much as possible.





- 4. Michiko has  $\frac{3}{4}$  of a pizza. She shares it equally between four people. What fraction of a whole pizza will each person get?

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5. What is  $\frac{4}{5} \times \frac{3}{8}$ ? Give your answer as a fraction in its **simplest form**.

- 6. A box of 100 teaspoons weighs 1854 g.
  - a. How much does 1 teaspoon weigh?
  - b. **Round** the weight of 1 teaspoon to the nearest gram.
- 7. Put the fractions  $\frac{5}{4}$ ,  $\frac{9}{10}$  and  $\frac{4}{5}$  in order from **smallest to largest**.





8. **Convert** the fraction  $\frac{5}{8}$  to a decimal. Show your working.

9. If you have twelve pieces of ribbon that are each 0.43 m long, how many metres of ribbon do you have in total?

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10. Pete buys six bananas. He pays  $\pounds$ 1.62. How much did each banana cost, in pounds? Use a **written division method** to find the answer.

11. Which number below would round to 6.2 when rounding to **one decimal place**?

 6.254
 6.149
 6.245
 6.304
 6.274



12. What is  $1\frac{2}{5} - \frac{9}{10}$ ? Give your answer as a fraction in its **simplest form**.

13. Box A contains 200 marbles.  $\frac{3}{5}$  of the marbles are green. Box B contains 300 marbles. 50% of the marbles are green. Which box contains **more green marbles**? Show your working.

Box \_\_\_\_\_ (2

14. Adam has  $1\frac{3}{4}$  pints of milk. Jade has  $1\frac{3}{8}$  pints of milk. How many pints of milk do they have in total between them? Give your answer as an **improper fraction**.

| <br>pints | 3           |
|-----------|-------------|
|           | 23<br>Total |



Answers se fractions as much as possible.

a. 
$$\frac{24}{40}$$
 Highest common factor = 8  
 $24 \div 8 = 3$   
 $40 \div 8 = 5$ 

Highest common factor = 9 b. <u>18</u> <u>63</u>  $18 \div 9 = 2$  $63 \div 9 = 7$ 

2. a. Find an equivalent fraction to  $\frac{1}{3}$ , where the denominator is 21.

b. Find an equivalent fraction to  $\frac{3}{7}$ , where the denominator is 21.







| 16 |  |
|----|--|
| 21 |  |

- $\frac{7}{21} + \frac{9}{21} = \frac{7+9}{21} = \frac{16}{21}$
- 3. a. What is the **value** of the digit '4' in the number 0.45?



 $1 \xrightarrow{\times 7} 7 \xrightarrow{7} 21$ 

 $\frac{3}{7} \underbrace{\overset{\times}{\longrightarrow}}_{2} \frac{9}{21}$ 

c. What is  $\frac{1}{3} + \frac{3}{7}$ ?





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smallest -



🔶 largest





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**Example 1** Fractions, Decimals & Percentages Answers 12. What is  $1\frac{2}{5} - \frac{1}{10}$ ? Give your answer as a fraction in its simplest form.  $1\frac{2}{5} = \frac{(1 \times 5) + 2}{5} = \frac{7}{5}$   $\frac{7}{5} - \frac{14}{10}$ Award 1 mark for doing the subtraction and 1 mark for simplifying the fraction.

 $\frac{5}{10} \xrightarrow{\div 5} \frac{1}{2}$ 



13. Box A contains 200 marbles.  $\frac{3}{5}$  of the marbles are green.

 $\frac{14}{10} - \frac{9}{10} = \frac{14 - 9}{10} = \frac{5}{10}$ 

Box B contains 300 marbles. 50% of the marbles are green. Which box contains **more green marbles**? Show your working.

E.g. 
$$\frac{3}{5} \times 200 = \frac{3 \times 200}{5} = \frac{600}{5} = 120$$
  
 $50\% = \frac{1}{2} = \frac{1}{2}$  of 300 is 150.

Award 1 mark each for finding how many green marbles are in Box A and Box B.

Box <u>B</u> (2)

14. Adam has  $1\frac{3}{4}$  pints of milk. Jade has  $1\frac{3}{8}$  pints of milk. How many pints of milk do they have in total between them? Give your answer as an **improper fraction**.



Award 1 mark for converting the mixed numbers to improper fractions, 1 mark for putting them over a common denominator, and 1 mark for the addition.



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Total

### Number and Place Value

| 1. | Jack <b>partitioned</b> a big num | er like this:                        |                                 |   |
|----|-----------------------------------|--------------------------------------|---------------------------------|---|
|    | 10 000 000 + 2 000 00             | + 500 000 + 30 000 + 9               | 000 + 600 + 50 + 4              |   |
|    | What was the big number th        | Jack partitioned?                    |                                 |   |
|    |                                   |                                      |                                 |   |
|    |                                   |                                      |                                 | 1 |
| 2. | A school has 1454 pupils. H       | w many pupils does it have rou       | nded to the <b>nearest 10</b> ? |   |
|    |                                   |                                      | pupils                          |   |
| 3. | Put the numbers below in or       | r, going from <b>smallest to big</b> | gest.                           |   |
|    | 1 250 325                         | Smallest                             |                                 |   |
|    | 2 250 105                         |                                      |                                 |   |
|    | 2 250 150                         |                                      |                                 |   |
|    | 1 520 000                         | Biggest                              |                                 |   |

4. The temperature in Lima is 18 °C. The temperature in Toronto is -13 °C. What is the **difference** between these two temperatures?

°C



### Number and Place Value

5. What is 623 451 rounded to the **nearest 1000**?

|    |   | (1)        |
|----|---|------------|
| 6. | Look at this number: 8 257 361  |            |
|    | a. What is the <b>value</b> of the digit '5' in this number?  |            |
|    | <ul> <li>b. Write &lt; or &gt; in the box below to make the number sentence correct.</li> </ul>   | $\bigcirc$ |
|    | 8 257 361 8 257 631   | (1)        |
|    |   | $\bigcirc$ |
| 7. | Four people have the following amounts of money in their bank accounts:   |            |
|    | Carol: £1345         Karthik: £1495         Lola: £1516         Alex: £1387   |            |
|    | a. Who has £2000, rounded to the <b>nearest £1000</b> ?   |            |
|    |   | (1)        |
|    | b. Who has £1400, rounded to the <b>nearest £100</b> ?  | 0          |
|    |   | $\bigcirc$ |
|    | And the second se | (1)        |
| 8. | Alice has $-$ £56 in her bank account. She paus in £110.  |            |
|    | How much money does Alice have in her account now?  |            |
|    |   |            |
|    | £   |            |
|    |   |            |
|    |   | Total      |



### Number and Place Value

1. Jack **partitioned** a big number like this:

Answers

10 000 000 + 2 000 000 + 500 000 + 30 000 + 9000 + 600 + 50 + 4

What was the big number that Jack partitioned?

2. A school has 1454 pupils. How many pupils does it have rounded to the **nearest 10**?

12 539 654

3. Put the numbers below in order, going from **smallest to biggest**.

| 1 250 325 | Smallest | 1 250 325 |
|-----------|----------|-----------|
| 2 250 105 |          | 1 520 000 |
| 2 250 150 |          | 2 250 105 |
| 1 520 000 | Biggest  | 2 250 150 |

Award 2 marks for all correct, otherwise award 1 mark for at least 1 correct.

4. The temperature in Lima is 18 °C. The temperature in Toronto is -13 °C. What is the **difference** between these two temperatures?

E.g. there are 13 places between -13 and 0. There are 18 places between 0 and 18. 13 + 18 = 31



\_<mark>31</mark> ∘c

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