

| Revision 4 | Date             | Topic    |
|------------|------------------|----------|
|            | wk beg. 24.05.21 | Decimals |

Time: 30 mins

Numbers in blue denote total mark awarded for each question.

Total mark: / 32

1. Complete the table below:

| Percentage           | Decimal | Fraction (in most simple form) |
|----------------------|---------|--------------------------------|
| a. 25%               | 0.25    | $\frac{1}{4}$                  |
| b. 40%               | 0.4     | $\frac{2}{5}$                  |
| c. 75%               | 0.75    | $\frac{3}{4}$                  |
| d. 30%               | 0.3     | $\frac{3}{10}$                 |
| e. 80%               | 0.8     | $\frac{4}{5}$                  |
| f. $33\frac{1}{3}\%$ | 0.333   | $\frac{1}{3}$                  |

6

2. Copy and complete each sequence:

a.  $2.2 \overset{-0.4}{\wedge}, 1.8, 1.4, \underline{1}, \underline{0.6}, \underline{0.2}$

b.  $1.5 \overset{+0.01}{\wedge}, 1.51, \underline{1.52}, \underline{1.53}, \underline{1.54}, 1.55$

c.  $6.48 \overset{-0.05}{\wedge}, 6.43, \underline{6.38}, 6.33, \underline{6.28}, \underline{6.23}$

3

3. Write the correct symbol < or > between each set of numbers:

a.  $3.6 < 3 \frac{61}{100}$   $3.61$

b.  $8 \frac{7}{10} > 8 \frac{49}{100}$   $8.49$

c.  $\frac{13}{100} < 1$   $0.13$

3

4. Order these numbers starting with the largest:

a.  $3\frac{1}{10}$   $3.3$   $3$   $2.9$   $3.3, 3\frac{1}{10}, 3, 2.9$

b.  $2.12$   $2\frac{45}{100}$   $2.9$   $2\frac{57}{100}$   $2.9, 2\frac{57}{100}, 2\frac{45}{100}, 2.12$

c.  $4.8$   $4\frac{9}{10}$   $4.75$   $4\frac{34}{100}$   $4\frac{9}{10}, 4.8, 4.75, 4\frac{34}{100}$

3

5. Round the following numbers to the nearest tenth:   
 1-4 round down   
 5-9 round up

a.  $9.36$   $9.4$

b.  $0.99$   $1$

c.  $5.51$   $5.5$

3

6. Look at the three calculations below.

|                      |                        |                          |
|----------------------|------------------------|--------------------------|
| $2.4 \times 20 = 48$ | $47 \times 1.8 = 84.6$ | $8.9 \times 1.2 = 10.68$ |
|----------------------|------------------------|--------------------------|

Use these to help you complete the calculations below:

a.  $24 \times 20 =$   $\rightarrow$  Use  $2.4 \times 20 = 48 \rightarrow 2.4 \times 10 = 24$  so multiply  $48$  by  $10 = 480$

b.  $4.7 \times 1.8 = 47 \div 10 = 4.7$  so  $\div 84.6$  by  $10 = 8.46$

c.  $0.89 \times 1.2 = 8.9 \div 10 = 0.89$  so  $\div 10.68$  by  $10 = 1.068$

3

7. Look at the multiplication below.

$36 \times 27.2 = 979.2$

Use this multiplication to help you do the calculation below.

$3.6 \times 27.2 =$   $\div 10$    
 so divide answer by  $10 = 97.92$

1

8. *take away* Find the difference in cost between six pizzas at £3.16 and four lasagnes at £4.01.

$$\begin{array}{r} \text{£ } 3.16 \\ \times \quad 6 \\ \hline \text{£ } 18.96 \end{array}$$

$$\begin{array}{r} \text{£ } 4.01 \\ \times \quad 4 \\ \hline \text{£ } 16.04 \end{array}$$

$$\begin{array}{r} \text{£ } 18.96 \\ - \text{£ } 16.04 \\ \hline \text{£ } 2.92 \end{array}$$

9. Work out the change you would get from £20 after spending £8.30 and £4.82.

$$\begin{array}{r} \text{£ } 8.30 \\ + \text{£ } 4.82 \\ \hline \text{£ } 13.12 \end{array}$$

$$\begin{array}{r} \text{£ } 20.00 \\ - \text{£ } 13.12 \\ \hline \text{£ } 6.88 \end{array}$$

10. Simon uses his calculator to carry out this calculation:

$$564 \times 3.4 = 1917.6$$

Look at the calculations below. Circle TWO calculations that give the answer 1917.6

56.4 x 34 =

564 x 34 =

5.64 x 340 =

56.4 x 3.4 =

5640 x 3.4 =

Explanation:  
 $\checkmark 56.4 \times 34$   
 $\swarrow \quad \searrow$   
 $\div 10 \quad \times 10$

cancel out to give 1917.6

$\times 564 \times 34 =$  so you must  $\times$  answer by  
 $\swarrow \quad \searrow$   
 hasn't changed  $\times 10 \quad 10 = 19176$

$\checkmark 5.64 \times 340$   
 $\swarrow \quad \searrow$   
 $\div 100 \quad \times 100 \rightarrow$  cancel out to give 1917.6

11. Dave bought 4 items in a supermarket. His receipt is shown below.

|              |              |
|--------------|--------------|
| cheese       | £1.96        |
| ham          | £1.19        |
| bread        | £0.95        |
| juice        | £3.18        |
| <b>total</b> | <b>£7.28</b> |

The price of the cheese has not printed out. How much was the cheese?

Give your answer in £.

$$\begin{array}{r}
 \text{£} 1.19 \\
 + \text{£} 0.95 \\
 \hline
 \text{£} 3.18 \\
 \hline
 \text{£} 5.32
 \end{array}$$

$$\begin{array}{r}
 \text{£} 7.28 \\
 - \text{£} 5.32 \\
 \hline
 \text{£} 1.96
 \end{array}$$

1

14. Complete the calculation below by writing the correct decimal number in the box.

12. Sugar costs £1.14 per kilogram.

a. Find the cost of 4 kilograms. GIVE YOUR ANSWER IN ~~KG~~ <sup>£</sup>.

$$\begin{array}{r}
 \text{£} 1.14 \\
 \times \quad 4 \\
 \hline
 \text{£} 4.56
 \end{array}$$

b. Find the cost of 4.5 kilograms. GIVE YOUR ANSWER IN ~~KG~~ <sup>£</sup>.

$$\begin{array}{l}
 4\text{kg} = \text{£} 4.56 \\
 \frac{1}{2}\text{kg} = 2 \overline{) 1.14} \\
 \quad \underline{0.57} \\
 \quad \quad 0.57
 \end{array}$$

$$\begin{array}{r}
 \text{£} 4.56 \\
 + \text{£} 0.57 \\
 \hline
 \text{£} 5.13
 \end{array}$$

2

13. Look at the numbers below.

3.7      4.12       $4\frac{1}{10}$        $4\frac{81}{100}$

*Handwritten annotations: 4.1 above  $4\frac{1}{10}$ , 4.81 above  $4\frac{81}{100}$*

a. Multiply the smallest number by 10.

$$3.7 \times 10 = 37$$

b. Divide the largest number by 100.

$$4.81 \div 100 = 0.0481$$

2

14. Complete the calculation below by writing the correct **decimal number** in the box.

$\times 7 = 48.3$

*Handwritten long division:  $7 \overline{)48.3}$  with 06.9 written above the line.*

1