

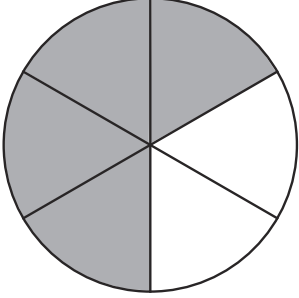
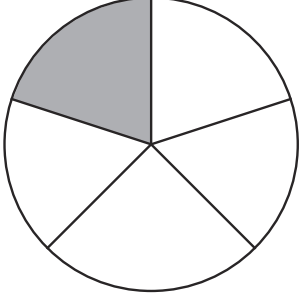
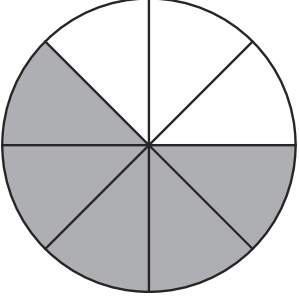
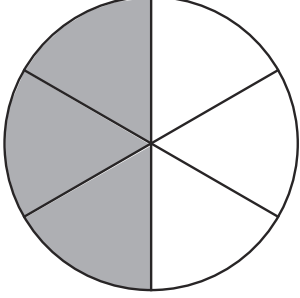
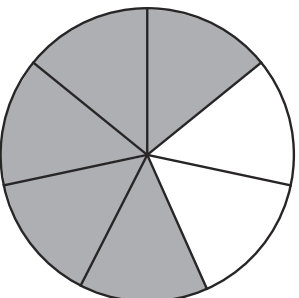
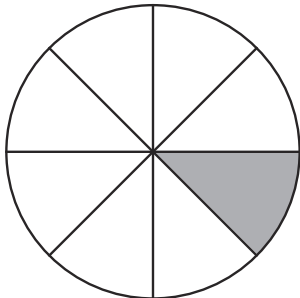
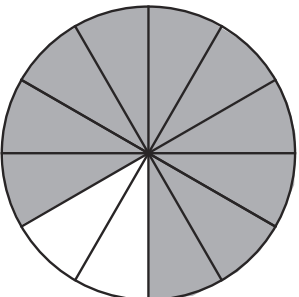
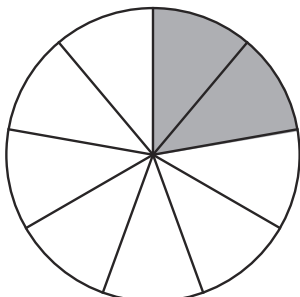
# Year 4 Measure and Money Problems

## Answers

1. How much would it cost to buy a second-hand copy of The Force Sleeps?  
**£2.00**
2. What would the total cost of buying Minecraft and The Force Sleeps second hand?  
**Second hand 2 games =  $\frac{1}{4}$  the price.**  
**£4.00 + £5.00 = £9.00**  
 **$\frac{1}{4}$  of £9.00 = £2.25**
3. How much would it be to buy new versions of both Cool Duty and Toastbusters?  
**£4.48 + £5.84 = £10.32**
4. How much would you pay to buy second-hand copies of Wall of Spies and FOFA 16?  
 **$\frac{1}{4}$  of £1.80 = 45p**  
 **$\frac{1}{4}$  of £3.96 = 99p**  
**Total: £1.44**
5. What would the cost be for a new copy of Toastbusters and second-hand copies of Toastbusters and The Force Sleeps?  
**£5.84 + £1.46 + £1.00 = £8.30**
6. How much would it cost to buy all of the games brand new?  
**£1.80 + £3.96 + £5.00 + £4.00 + £4.48 + £5.84 = £25.08**

# Adding and Subtracting Fractions with the Same Denominators

## Answers

|  |   |
|--|---|
| 1.<br><br>$\frac{4}{6}$     | 2.<br><br>$\frac{1}{5}$   |
| 3.<br><br>$\frac{5}{8}$    | 4.<br><br>$\frac{3}{6}$  |
| 5.<br><br>$\frac{5}{7}$   | 6.<br><br>$\frac{1}{8}$ |
| 7.<br><br>$\frac{10}{12}$ | 8.<br><br>$\frac{2}{9}$ |

# Counting Up and Down in Hundredths Answers

A. Practise counting in hundredths by filling in the blanks.

1.

|                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| $\frac{1}{100}$ | $\frac{2}{100}$ | $\frac{3}{100}$ | $\frac{4}{100}$ | $\frac{5}{100}$ | $\frac{6}{100}$ | $\frac{7}{100}$ | $\frac{8}{100}$ | $\frac{9}{100}$ | $\frac{10}{100}$ |
|                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |
|                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |

2.

|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $\frac{18}{100}$ | $\frac{19}{100}$ | $\frac{20}{100}$ | $\frac{21}{100}$ | $\frac{22}{100}$ | $\frac{23}{100}$ | $\frac{24}{100}$ | $\frac{25}{100}$ | $\frac{26}{100}$ | $\frac{27}{100}$ |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

3.

|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $\frac{28}{100}$ | $\frac{29}{100}$ | $\frac{30}{100}$ | $\frac{31}{100}$ | $\frac{32}{100}$ | $\frac{33}{100}$ | $\frac{34}{100}$ | $\frac{35}{100}$ | $\frac{36}{100}$ | $\frac{37}{100}$ |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

B. We can also apply hundredths to numbers. £1 is divided into 100 pennies, so each penny is one hundredth of a pound.

Fill in the missing numbers and the matching number of pennies.

1.

|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $\frac{11}{100}$ | $\frac{12}{100}$ | $\frac{13}{100}$ | $\frac{14}{100}$ | $\frac{15}{100}$ | $\frac{16}{100}$ | $\frac{17}{100}$ | $\frac{18}{100}$ | $\frac{19}{100}$ | $\frac{20}{100}$ |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11p              | 12p              | 13p              | 14p              | 15p              | 16p              | 17p              | 18p              | 19p              | 20p              |

2.

|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $\frac{31}{100}$ | $\frac{32}{100}$ | $\frac{33}{100}$ | $\frac{34}{100}$ | $\frac{35}{100}$ | $\frac{36}{100}$ | $\frac{37}{100}$ | $\frac{38}{100}$ | $\frac{39}{100}$ | $\frac{40}{100}$ |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 31p              | 32p              | 33p              | 34p              | 35p              | 36p              | 37p              | 38p              | 39p              | 40p              |

3.

|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| $\frac{75}{100}$ | $\frac{76}{100}$ | $\frac{77}{100}$ | $\frac{78}{100}$ | $\frac{79}{100}$ | $\frac{80}{100}$ | $\frac{81}{100}$ | $\frac{82}{100}$ | $\frac{83}{100}$ | $\frac{84}{100}$ |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 75p              | 76p              | 77p              | 78p              | 79p              | 80p              | 81p              | 82p              | 83p              | 84p              |

4.

|                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| $\frac{91}{100}$ | $\frac{92}{100}$ | $\frac{93}{100}$ | $\frac{94}{100}$ | $\frac{95}{100}$ | $\frac{96}{100}$ | $\frac{97}{100}$ | $\frac{98}{100}$ | $\frac{99}{100}$ | $\frac{100}{100}$ |
|                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |
| 91p              | 92p              | 93p              | 94p              | 95p              | 96p              | 97p              | 98p              | 99p              | £1                |

# Converting Decimal Tenths and Hundredths to Fractions

## Answers

A. Write these decimals into the place value chart. Read the place value and write the decimal as a fraction. The first question has been completed for you.

| Decimal          | Place Value Chart |   |        | How many tenths?                            |
|------------------|-------------------|---|--------|---|
| 0.7              | Ones              |   | tenths | <b>7 tenths = <math>\frac{7}{10}</math></b> |
|                  | 0                 | . | 7      |   |
| 0.3              | Ones              |   | tenths | <b>3 tenths = <math>\frac{3}{10}</math></b> |
|                  |                   | . |        |   |
| zero point two   | Ones              |   | tenths | <b>2 tenths = <math>\frac{2}{10}</math></b> |
|                  |                   | . |        |   |
| 0.4              | Ones              |   | tenths | <b>4 tenths = <math>\frac{4}{10}</math></b> |
|                  |                   | . |        |   |
| 0.1              | Ones              |   | tenths | <b>1 tenth = <math>\frac{1}{10}</math></b>  |
|                  |                   | . |        |   |
| 0.9              | Ones              |   | tenths | <b>9 tenths = <math>\frac{9}{10}</math></b> |
|                  |                   | . |        |   |
| zero point eight | Ones              |   | tenths | <b>8 tenths = <math>\frac{8}{10}</math></b> |
|                  |                   | . |        |   |

B. Complete the table.

| Decimal               | Place Value Chart |   |        |            | How many tenths?   |
|-----------------------|-------------------|---|--------|------------|--|
|                       | Ones              | . | tenths | hundredths |  |
| 0.73                  | 0                 | . | 7      | 3          | <b>73 hundredths = <math>\frac{73}{100}</math></b>                               |
| 0.20                  | 0                 | . |        |            | <b>20 hundredths = <math>\frac{20}{100}</math> or <math>\frac{20}{10}</math></b> |
| zero point four six   | 0                 | . |        |            | <b>46 hundredths = <math>\frac{46}{100}</math></b>                               |
| nought point nought 4 | 0                 | . |        |            | <b>4 hundredths = <math>\frac{4}{100}</math></b>                                 |
| 0.42                  | 0                 | . |        |            | <b>42 hundredths = <math>\frac{42}{100}</math></b>                               |
| 0.66                  | 0                 | . |        |            | <b>66 hundredths = <math>\frac{66}{100}</math></b>                               |
| 0.99                  | 0                 | . |        |            | <b>99 hundredths = <math>\frac{99}{100}</math></b>                               |

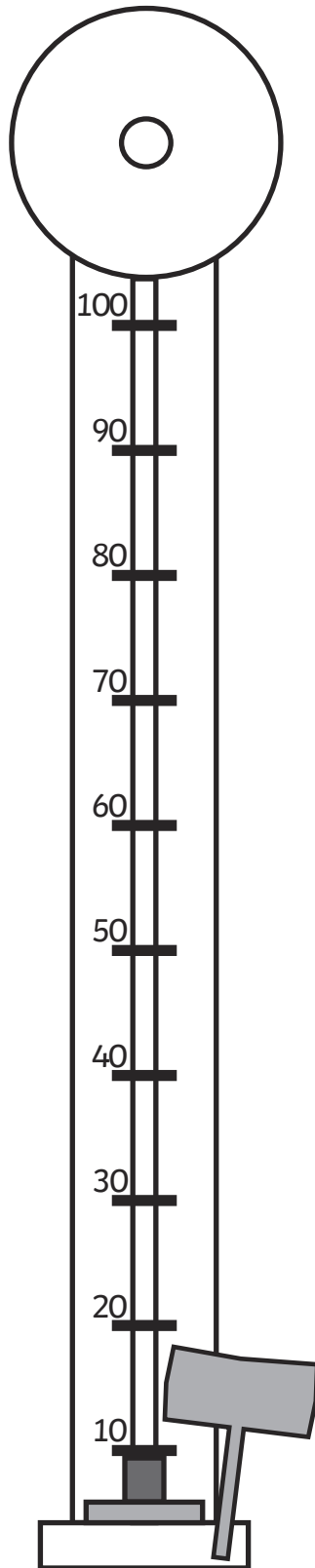
C. What do you think this decimal is as a fraction?

|   |   |   |   |   |
|---|---|---|---|---|
| 0 | . | 0 | 0 | 7 |
|---|---|---|---|---|

**7 thousandths =  $\frac{7}{1000}$**

# Test of Strength Answers

|                          |
|--------------------------|
| Superhuman               |
| Super Strong heavyweight |
| Strong Heavyweight       |
| Heavyweight              |
| Super Strong             |
| Powerful                 |
| Muscly                   |
| Strong                   |



|  |
|--|
| 24   |
| $\frac{1}{4}$  |
| 48   |
| $\frac{2}{7}$ of £84 = £24   |
| $\frac{1}{2}$ of 28 = 14<br>$\frac{1}{4}$ of 48 = 12<br>$\frac{1}{2}$ of 28 is bigger. |
| $\frac{20}{30} = \frac{2}{3}$  |
| $\frac{1}{10}$   |
| 15   |

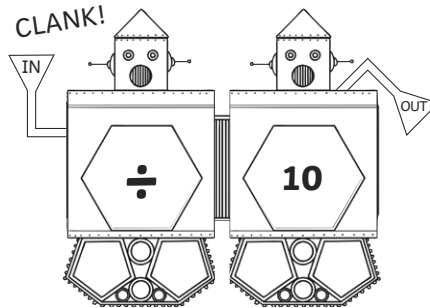
# Shrinking Machine Answers

Recognise that hundredths arise when dividing an object by 100.

The shrinking machine makes numbers 10 or 100 times smaller. Can you write the shrunken numbers in the new table? Add some sound effects to the machine too!

Make the numbers 10 times smaller.

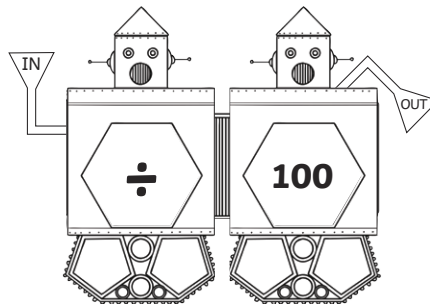
| O    | t      | h          |
|------|--------|------------|
| Ones | tenths | hundredths |
| 3    | • 0    |            |
| 7    | • 0    |            |
| 8    | • 0    |            |
| 9    | • 0    |            |
| 5    | • 0    |            |
| 2    | • 0    |            |



| O    | t      | h          |
|------|--------|------------|
| Ones | tenths | hundredths |
| 0    | • 3    |            |
| 0    | • 7    |            |
| 0    | • 8    |            |
| 0    | • 9    |            |
| 0    | • 5    |            |
| 0    | • 2    |            |

Make the numbers a hundred times smaller.

| T    | O    | t      | h          |
|------|------|--------|------------|
| tens | ones | tenths | hundredths |
| 3    | 6    | •      |            |
| 4    | 9    | •      |            |
| 1    | 8    | •      |            |
| 7    | 2    | •      |            |
|      | 8    | •      |            |
|      | 1    | •      |            |



| T    | O    | t      | h          |
|------|------|--------|------------|
| tens | ones | tenths | hundredths |
|      | 0    | • 3    | 6          |
|      | 0    | • 4    | 9          |
|      | 0    | • 1    | 8          |
|      | 0    | • 7    | 2          |
|      | 0    | • 0    | 8          |
|      | 0    | • 0    | 1          |