

## Practice Sheets Answers

### Adding decimals (mild)

1.  $34.5 + 27.3 = 61.8$
2.  $62.7 + 23.5 = 86.2$
3.  $24.8 + 43.9 = 68.7$
4.  $46.7 + 25.5 = 72.2$
5.  $47.8 + 34.4 = 82.2$
6.  $5.42 + 6.37 = 11.79$
7.  $4.48 + 3.27 = 7.75$
8.  $5.63 + 2.84 = 8.47$
9.  $6.57 + 2.48 = 9.05$
10.  $7.85 + 4.56 = 12.41$

### Shot put results (mild)

| Athlete | 1st throw | 2nd throw | Total  | Rank |
|---------|-----------|-----------|--------|------|
| Ceri    | 21.67m    | 24.79m    | 46.46m | 2    |
| James   | 22.12m    | 24.65m    | 46.77m | 1    |
| Gurpit  | 22.45m    | 21.89m    | 44.34m | 5    |
| Natasha | 23.57m    | 22.68m    | 46.25m | 3    |
| Alice   | 22.56m    | 23.13m    | 45.69m | 4    |

### Adding decimals (hot)

1.  $67.8 + 35.9 = 103.7$
2.  $45.8 + 26.7 = 72.5$
3.  $5.42 + 6.37 = 11.79$
4.  $4.48 + 3.27 = 7.75$
5.  $5.63 + 2.84 = 8.47$
6.  $6.57 + 2.48 = 9.05$
7.  $7.85 + 4.56 = 12.41$
8.  $37.2 + 4.28 = 41.48$
9.  $24.6 + 3.84 = 28.44$
10.  $47.4 + 8.7 = 56.1$
11.  $3.78 + 21.8 = 25.58$
12.  $45.5 + 2.52 = 48.02$

### Challenge

Janie says that adding 36.2 to 9.77 gives an answer of 133.9. What advice would you give her? Janie has taken out the decimal point, added the numbers to give completely the wrong answer. She should have used column addition taking care to line up the columns and the decimal point.

### Long jump results (hot)

| Athlete | 1st jump | 2nd jump | 3rd jump | Total  | Rank |
|---------|----------|----------|----------|--------|------|
| Sunita  | 3.45m    | 3.28m    | 3.64m    | 10.37m | 1    |
| Dylan   | 2.87m    | 3.14m    | 2.96m    | 8.97m  | 5    |
| Faith   | 2.92m    | 3.04m    | 2.97m    | 8.93m  | 6    |
| Lee     | 3.07m    | 3.26m    | 3.18m    | 9.51m  | 4    |
| Toby    | 3.46m    | 3.19m    | 3.24m    | 9.89m  | 3    |
| Abbie   | 3.27m    | 3.54m    | 3.27m    | 10.08m | 2    |

#### Challenge

Zane's total for his 3 jumps is 10.53m.

Answers where all 3 jumps are more than 3.00m and add up to 10.53m, e.g.  
3.47m + 3.38m + 3.68m are acceptable.

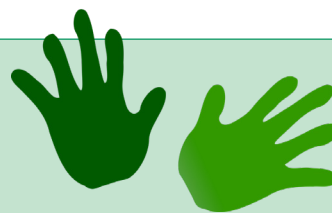
## A Bit Stuck?

### Dancing decimals

Work in pairs

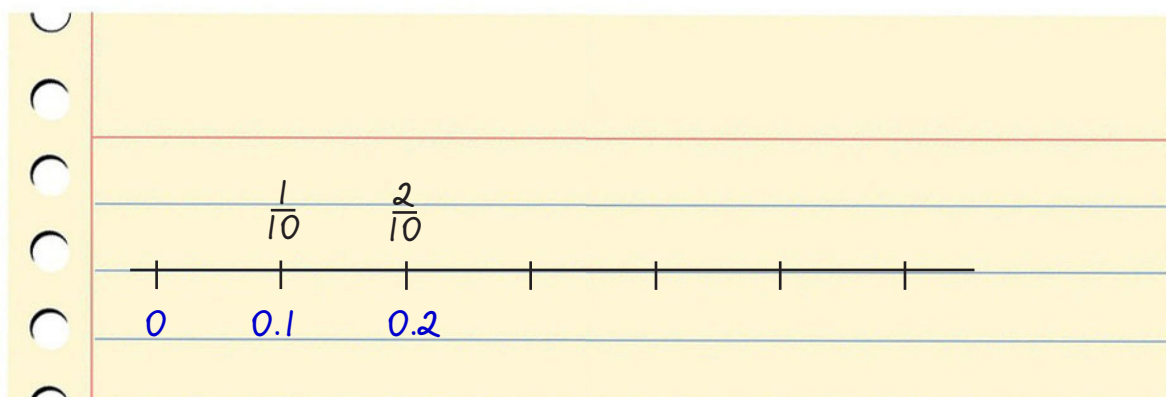
#### Things you will need:

- a pencil
- an enlarged 0 to 3 number line
- a whiteboard and pen



#### What to do:

- Look at the long number line, stretching from zero to three. Label each division on the scale, writing decimals below the line and fractions above the line.



#### ***S-t-r-e-t-c-h:***

Can you think of another way we could write  $\frac{5}{10}$ ?

What about  $\frac{15}{10}$ ?  $\frac{11}{2}$ ?  $\frac{25}{10}$ ?  $\frac{21}{2}$ ?

Where does  $\frac{1}{4}$  appear on the line?

What about  $\frac{3}{4}$ ?

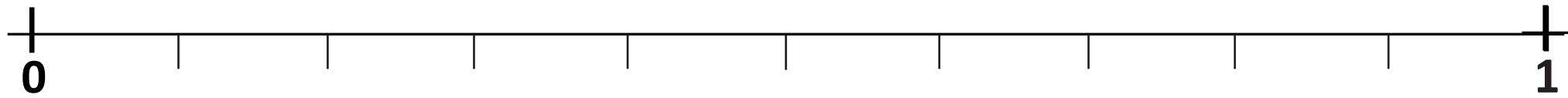
Do you know the decimal equivalents for these fractions?

#### Learning outcomes:

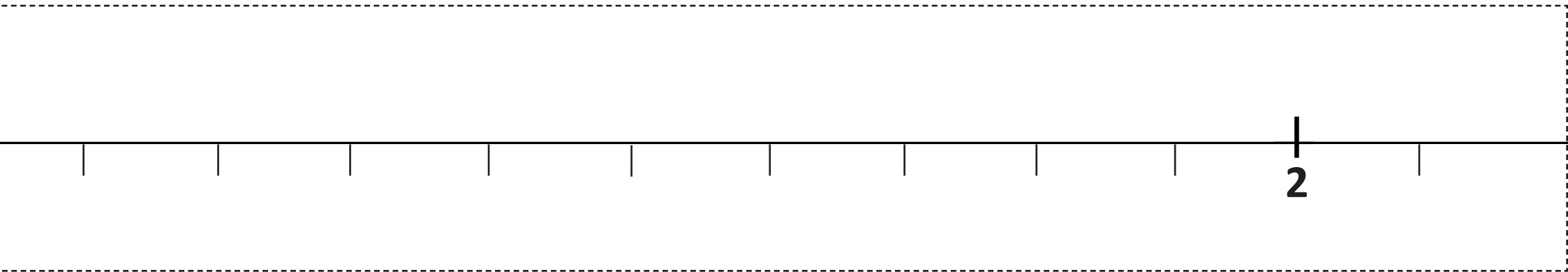
- I can place any number of tenths on a 0 to 3 landmarked number line.
- I can count on and back in tenths between 0 and 3.
- I am beginning to recognise and recall fractions and decimals equivalent to tenths.

**A Bit Stuck?**  
**Dancing decimals**

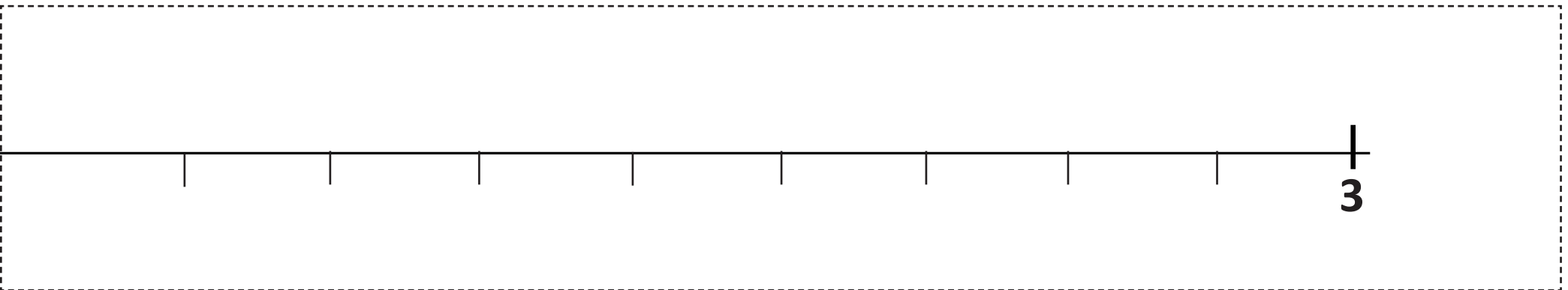
Cut out this number line, then glue it together carefully.



**A Bit Stuck?**  
**Dancing decimals**



**A Bit Stuck?**  
**Dancing decimals**



## Check your understanding

### Questions

Sometimes/ Always/ Never... 'If you add two 2-place decimal numbers, the answer also has 2 decimal places.'

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Jamie added 6.77 to a number and his answer was 20. What number did he start with?

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Ali's homework might need correcting... Correct any he has wrong and say what he did wrong.

|  |  |
|--|--|
| $\begin{array}{r} 2.75 \\ + 5.95 \\ \hline 7.60 \end{array}$ | $\begin{array}{r} 3.42 \\ + 5.57 \\ \hline 8.99 \end{array}$ |
| $\begin{array}{r} 4.83 \\ + 1.93 \\ \hline 5.76 \end{array}$ | $\begin{array}{r} 2.47 \\ + 68.5 \\ \hline 93.2 \end{array}$ |

*Fold here to hide answers:*

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## Check your understanding

### Answers

Sometimes/ Always/ Never... 'If you add two 2-place decimal numbers, the answer also has 2 decimal places.'

Sometimes, e.g.  $1.43 + 3.51 = 4.94$  but not if the last 2 digits add to 10, e.g.  $3.44 + 2.36 = 5.8$

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Jamie added 6.77 to a number and his answer was 20. What number did he start with?

13.23 – probably best solved by counting up from 6.77

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Ali's homework might need correcting... Correct any he has wrong and say what he did wrong.

$2.75 + 5.95$  should be 8.70 and  $4.83 + 1.93$  should be 6.76. In each case, he has not noted the extra 1s digits when the column totals more than 10. These are best set out with a space above the answer line for extra digits.

3.4.2 has a 'mysterious' extra decimal point. The total for  $3.42 + 5.57$  is correct.

$2.47 + 68.5$  should be 70.97, he has misaligned the digits.