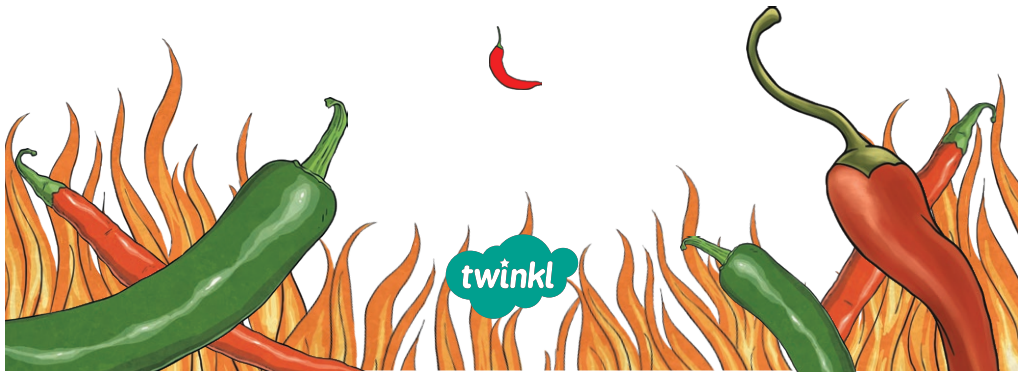


Chilli Challenge

Year 5 Fractions



Fractions Chilli Challenge

Nice and Spicy! 

Recognise, name and write fractions

Recognise mixed numbers and improper fractions < 2
and convert from one form to the other

$$\frac{5}{4} = \boxed{}$$

twinkl.com

Fractions Chilli Challenge

Nice and Spicy! 

Recognise, name and write fractions

Read and write decimal numbers as fractions

$$1.1 = \boxed{}$$

twinkl.com

Fractions Chilli Challenge

Nice and Spicy! 

Recognise, name and write fractions

Recognise and use hundredths and relate them
decimal equivalents

$$0.13 = \boxed{}$$

twinkl.com

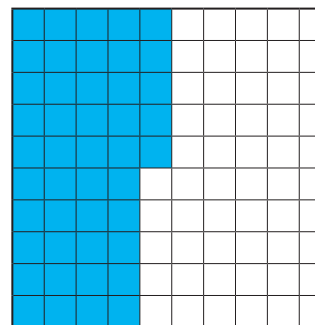
Recognise, name and write fractions

Read and write numbers with up to three decimal places

Write in words 2.09

Recognise, name and write fractions

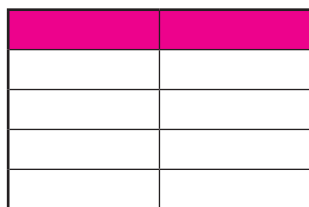
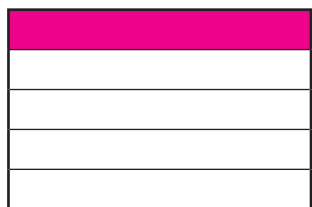
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred'



What percentage does this show?

Equivalence

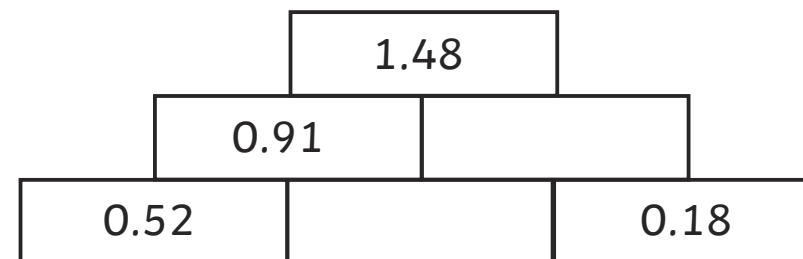
Identify, name and write equivalent fractions of given simple fractions, represented visually



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Solve Problems

Solve problems involving numbers up to two decimal places



Solve Problems

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at 50% of the full price in a sale.

How much does the coat cost now?

Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{1}{8} + \frac{1}{4} = \boxed{} \quad \text{and} \quad \frac{1}{2} - \frac{1}{8} = \boxed{}$$

Calculate

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{1}{3} \times 2 = \boxed{}$$

Compare and Order

Compare and order simple fractions whose denominators are all multiples of the same number

Use <, > or = to compare these fractions.

$$\frac{3}{8} \quad \boxed{} \quad \frac{1}{4}$$

Compare and Order

Order and compare numbers with up to two decimal places

Write these numbers in the correct order in the boxes:

0.4, 0.31, 0.42

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smallest

greatest

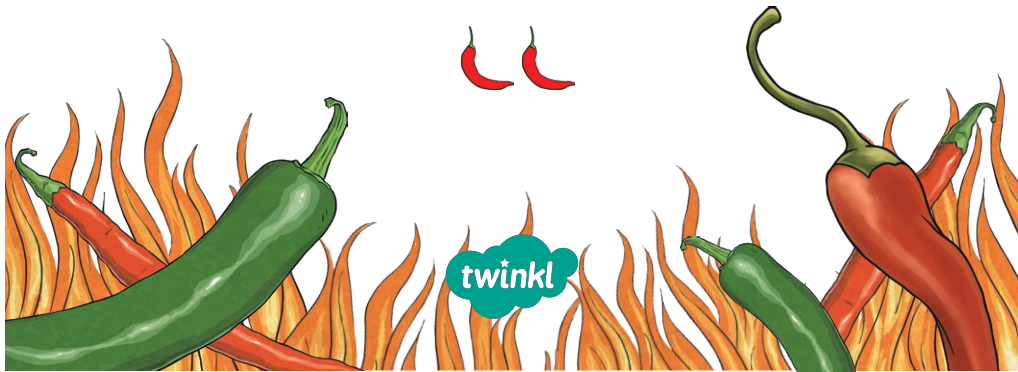
Rounding

Round decimals with two decimal places to the nearest whole number

What is 1.25 to the nearest whole number?

Chilli Challenge

Year 5 Fractions



Fractions Chilli Challenge

It's getting hot! 

Recognise, name and write fractions

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number

$$\frac{5}{4} = \boxed{}$$

twinkl.com

Fractions Chilli Challenge

It's getting hot! 

Recognise, name and write fractions

Read and write decimal numbers as fractions

$$1.25 = \boxed{}$$

twinkl.com

Fractions Chilli Challenge

It's getting hot! 

Recognise, name and write fractions

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

$$0.131 = \boxed{}$$

twinkl.com



Recognise, name and write fractions

Read and write numbers with up to three decimal places

Write in words 2.309



Recognise, name and write fractions

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

$$45\% = \boxed{} = \boxed{}$$



Equivalence

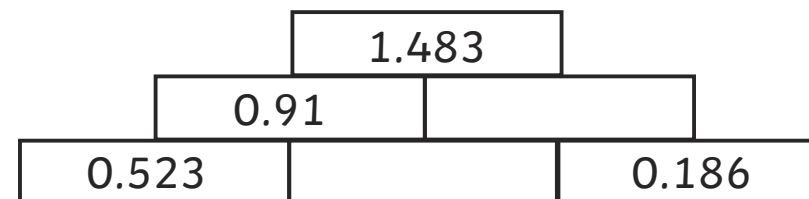
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

$$\frac{2}{5} = \frac{\boxed{}}{10} = \frac{\boxed{}}{15} = \frac{\boxed{}}{20}$$



Solve Problems

Solve problems involving numbers up to three decimal places





Solve Problems

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at 25% of the full price in a sale.

How much does the coat cost now?



Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{5}{8} + \frac{1}{4} = \boxed{} \quad \text{and} \quad \frac{9}{10} - \frac{1}{2} = \boxed{}$$



Calculate

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{2}{3} \times 4 = \boxed{}$$



Compare and Order

Compare and order simple fractions whose denominators are all multiples of the same number

Use <, > or = to compare these fractions.

$$\frac{3}{8} \quad \boxed{} \quad \frac{1}{4}$$



Compare and Order

Order and compare numbers with up to three decimal places

Write these numbers in the correct order in the boxes:

0.316, 0.309, 0.31

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smallest

greatest



Rounding

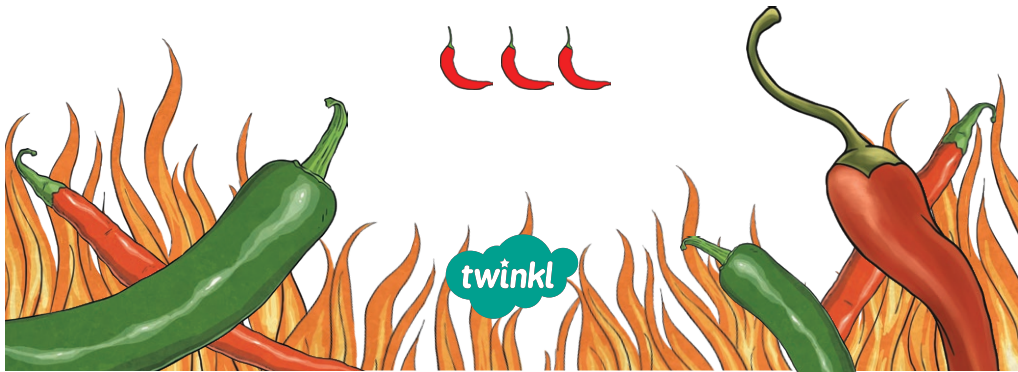
Round decimals with two decimal places to the nearest whole number

What is 1.25 to the nearest whole number?

What is 1.25 rounded to one decimal place?

Chilli Challenge

Year 5 Fractions



Fractions Chilli Challenge

Burning up! 

Recognise, name and write fractions

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number

$$\frac{3}{5} \times 4 = \boxed{}$$

twinkl.com

Fractions Chilli Challenge

Burning up! 

Recognise, name and write fractions

Read and write decimal numbers as fractions

$$1.375 = \boxed{}$$

twinkl.com

Fractions Chilli Challenge

Burning up! 

Recognise, name and write fractions

Read and write numbers with up to three decimal places

Write in words $2\frac{309}{1000}$

twinkl.com



Recognise, name and write fractions

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

Use simpler equivalent fractions for percentages and decimal:

$$45\% = \boxed{} = \boxed{}$$



Equivalence

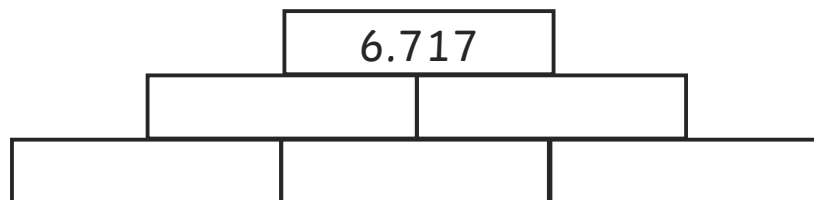
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

$$\frac{12}{32} \quad \frac{6}{\boxed{}} \quad \frac{\boxed{}}{8}$$



Solve Problems

Solve problems involving numbers up to three decimal places



Solve Problems

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at a 20% discount in a sale?

How much does the coat cost now?

**Calculate**

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{5}{8} + \frac{1}{24} = \boxed{} \text{ and } \frac{7}{10} - \frac{3}{5} = \boxed{}$$

**Calculate**

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{7}{8} \times 5 = \boxed{}$$

**Compare and Order**

Compare and order simple fractions whose denominators are all multiples of the same number

Complete this using numbers with three decimal places:

$$\frac{3}{10} - \frac{5}{20} = \boxed{}$$

**Compare and Order**

Order and compare numbers with up to three decimal places

Write these numbers in the correct order in the boxes:

0.307, 0.287, 0.3, 0.316, 0.31

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smallest

greatest



Rounding

Round decimals with two decimal places to the nearest whole number and to one decimal place

What is 1.25 to the nearest whole number?

What is 1.25 rounded to one decimal place?

Explain how you found each answer.

Year 5 Chilli Challenge

Fractions

Answers

Fractions Chilli Challenge

Nice and Spicy!

Recognise, name and write fractions

Recognise mixed numbers and improper fractions <2
and convert from one form to the other

$$\frac{5}{4} = 1\frac{1}{4}$$

Fractions Chilli Challenge

Nice and Spicy!

Recognise, name and write fractions

Read and write decimal numbers as fractions

$$1.1 = 1\frac{1}{10}$$

Fractions Chilli Challenge

Nice and Spicy!

Recognise, name and write fractions

Recognise and use hundredth and relate them
decimal equivalents

$$0.13 = \frac{13}{100}$$

Recognise, name and write fractions

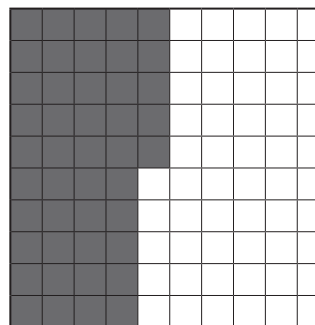
Read and write numbers with up to three decimal places

Write in words 2.09

Two point zero nine

Recognise, name and write fractions

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred'

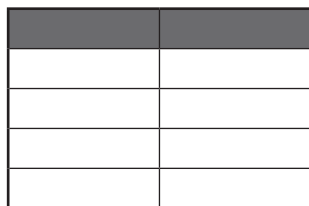
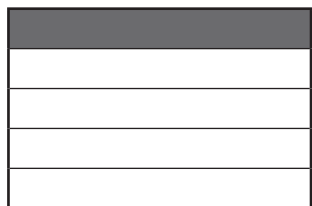


What percentage does this show?

45%

Equivalence

Identify, name and write equivalent fractions of given simple fractions, represented visually



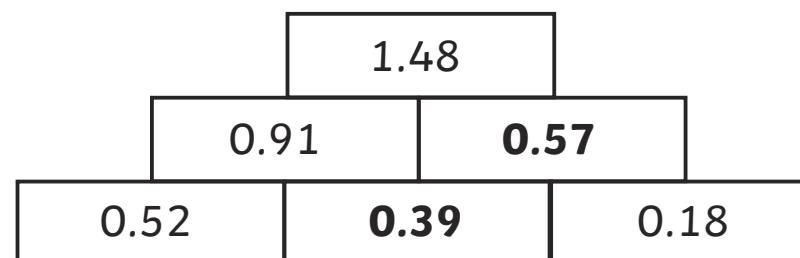
$$\frac{1}{5}$$

=

$$\frac{2}{10}$$

Solve Problems

Solve problems involving numbers up to two decimal places



Solve Problems

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at 50% of the full price in a sale.

How much does the coat cost now?

£40

Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{1}{8} + \frac{1}{4} = \boxed{\frac{3}{8}} \text{ and } \frac{1}{2} - \frac{1}{8} = \boxed{\frac{3}{8}}$$

Calculate

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{1}{3} \times 2 = \boxed{\frac{2}{3}}$$

Compare and Order

Compare and order simple fractions whose denominators are all multiples of the same number

Use <, > or = to compare these fractions.

$$\frac{3}{8} \quad \boxed{>} \quad \frac{1}{4}$$

Compare and Order

Order and compare numbers with up to two decimal places

Write these numbers in the correct order in the boxes:

0.31, 0.4, 0.42

0.31**0.4****0.42**

smallest

greatest

Rounding

Round decimals with two decimal places to the nearest whole number

What is 1.25 to the nearest whole number?

1.25 rounds to 1

Year 5 Chilli Challenge

Fractions

Answers

Recognise, name and write fractions

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number

$$\frac{5}{4} = 1 \frac{1}{4}$$

Recognise, name and write fractions

Read and write decimal numbers as fractions

$$1.25 = 1 \frac{1}{4}$$

Recognise, name and write fractions

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

$$0.131 = \frac{131}{1000}$$

Recognise, name and write fractions

Read and write numbers with up to three decimal places

Write in words 2.309

Two point three zero nine

Recognise, name and write fractions

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

$$45\% = \boxed{0.45} = \boxed{\frac{45}{100}}$$

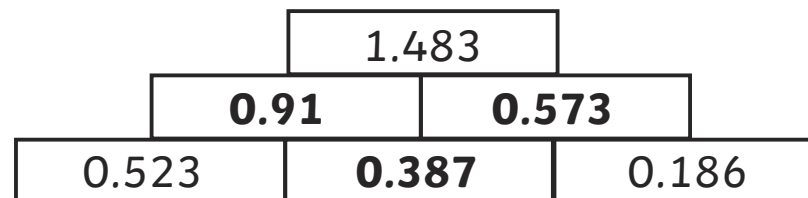
Equivalence

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

$$\frac{2}{5} = \frac{\boxed{4}}{\boxed{10}} = \frac{\boxed{6}}{\boxed{15}} = \frac{\boxed{8}}{\boxed{20}}$$

Solve Problems

Solve problems involving numbers up to three decimal places



Solve Problems

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at 25% of the full price in a sale.

How much does the coat cost now?

£20

Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{5}{8} + \frac{1}{4} = \boxed{\frac{7}{8}} \quad \text{and} \quad \frac{9}{10} - \frac{1}{2} = \boxed{\frac{4}{10}}$$

Calculate

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{2}{3} \times 4 = \boxed{2\frac{2}{3}}$$

Compare and Order

Compare and order simple fractions whose denominators are all multiples of the same number

Use <, > or = to compare these fractions.

$$\frac{3}{8} \quad \boxed{>} \quad \frac{1}{4}$$

Compare and Order

Order and compare numbers with up to three decimal places

Write these numbers in the correct order in the boxes:

0.316, 0.309, 0.31

0.309

0.31

0.316

smallest

greatest

Rounding

Round decimals with two decimal places to the nearest whole number

What is 1.25 to the nearest whole number?

What is 1.25 rounded to one decimal place?

1.25 rounds to 1 and 1.3

Year 5 Chilli Challenge

Fractions

Answers

Fractions Chilli Challenge

Burning Up!

Recognise, name and write fractions

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number

$$\frac{3}{5} \times 4 = 2\frac{2}{5}$$

Fractions Chilli Challenge

Burning Up!

Recognise, name and write fractions

Read and write decimal numbers as fractions

$$1.375 = 1\frac{3}{8}$$

Fractions Chilli Challenge

Burning Up!

Recognise, name and write fractions

Read and write numbers with up to three decimal places

Write in words $2\frac{309}{1000}$

Two point three zero nine

Recognise, name and write fractions

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

Use simpler equivalent fractions for percentages and decimal:

$$45\% = \boxed{0.45} = \boxed{\frac{9}{20}}$$

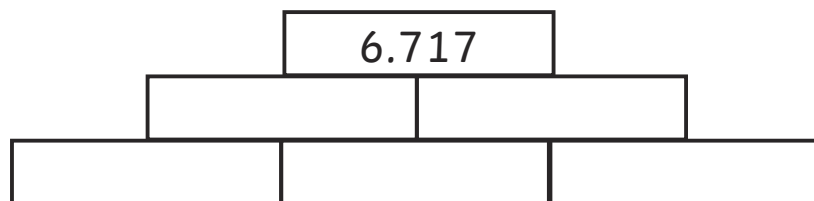
Equivalence

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

$$\frac{12}{32} \quad \frac{6}{16} \quad \boxed{\frac{3}{8}}$$

Solve Problems

Solve problems involving numbers up to three decimal places



Accept any accurate answer.

Solve Problems

Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at a 20% discount in a sale?

How much does the coat cost now?

£64

Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{5}{8} + \frac{1}{24} = \boxed{\frac{16}{24}} \text{ and } \frac{7}{10} - \frac{3}{5} = \boxed{\frac{1}{10}}$$

Calculate

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{7}{8} \times 5 = \boxed{4 \frac{3}{8}}$$

Compare and Order

Compare and order simple fractions whose denominators are all multiples of the same number

Complete this using numbers with three decimal places:

$$\frac{3}{10} - \frac{5}{20} = \boxed{\frac{1}{20}}$$

Compare and Order

Order and compare numbers with up to three decimal places

Write these numbers in the correct order in the boxes:

0.307, 0.287, 0.3, 0.316, 0.31

0.287	0.3	0.307	0.31	0.316
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smallest

greatest

Rounding

Round decimals with two decimal places to the nearest whole number and to one decimal place

What is 1.25 to the nearest whole number?

What is 1.25 rounded to one decimal place?

Explain how you found each answer.

Always look at the digit to the right of the one you are rounding to. Hence 1.25 rounds down to 1 as the number in the tenths column is lower than 5 (2) but rounds up to 1.3 because the number in the hundredths column is 5 or higher (5).