

(a) Calculate 39% of £576. [2]

(b) Calculate  $\frac{3}{7}$  of 100.

Give your answer correct to the nearest whole number. [2]

(c) How many quarters are there in 10? [1]

(d) What **fraction** is equal to 50% of  $\frac{1}{6}$ ? [1]

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Intermediate Numeracy Nov 2018 P2 Q1

<p>T-shirt</p>  <p>Was £46 Now <b>22% off</b> in the sale</p>	<p>Pair of shoes</p>  <p>Was £43.60 Now <math>\frac{3}{8}</math> <b>off</b> in the sale</p>
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(i) Calculate the sale price of the T-shirt. [2]

(ii) Calculate the sale price of the pair of shoes. [2]

(b) Before the sale, a pair of jeans cost £43.  
In the sale, the jeans cost £37.  
By what fraction have the jeans been reduced in the sale?  
Circle your answer. [1]




$\frac{37}{43}$

$\frac{43}{37}$

$\frac{6}{43}$

$\frac{6}{37}$

$\frac{37}{6}$

	Grapes £3.40 per kg
	Bananas £2.70 per kg
	Apples £1.80 per kg

(a) The price of 1kg of bananas is due to be increased by either  $\frac{1}{3}$  or 30%.

(i) How much would 1kg of bananas cost if the price was increased by  $\frac{1}{3}$  ?

Circle your answer

[1]

£4.05          £3.06          £3.60          £3.51          £2.97

(ii) How much would 1kg of bananas cost if the price was increased by 30%?

Circle your answer.

[1]

£3.15          £10.80          £3.60          £3.51          £2.97

(b) The price of 1 kg of apples is to be reduced by  $\frac{2}{5}$ .

Calculate the new price of 1kg of apples.

[2]

Intermediate Maths Sample 2 P1 Q2

Circle the correct answer for each of the following statements.

(a) 0.2 is equivalent to

2%          20%          0.2%           $\frac{1}{5}$  %           $\frac{2}{10}$  %

[1]

(b) 5.4 – 2.16 is equal to

2.24          3.24          3.34          3.36          7.56

[1]

(c)  $\frac{5}{6} - \frac{1}{3}$  is equal to

$\frac{51}{63}$

$\frac{4}{3}$

$\frac{1}{2}$

$\frac{4}{6}$

0.43

[1]

Intermediate Maths Nov 2016 P1 Q2

Circle either TRUE or FALSE for each of the following statements.

[3]

20% of 70 is the same as 70% of 20.	TRUE	FALSE
$\frac{1}{2}$ of $\frac{1}{8}$ is the same as $\frac{1}{8}$ of $\frac{1}{2}$	TRUE	FALSE
A number is halved. The answer is halved, and then this answer is halved again. This gives the same answer as dividing the original number by 6.	TRUE	FALSE
Dividing a number by 15 is the same as first dividing by 10 and then dividing the answer by 5.	TRUE	FALSE
Multiplying a number by 2.5 is the same as first multiplying by 10 and then dividing the answer by 4.	TRUE	FALSE

Intermediate Maths June 2017 P1 Q2

Write down 0.4, 15% and  $\frac{7}{20}$  in ascending order.

You must show all your working.

[3]

Intermediate Numeracy Summer 2018 P1 Q2c

(c) The gardens at Castell Gwynhir cover an area of 714 000 m<sup>2</sup>.Water ponds cover  $\frac{2}{7}$  of the area of the gardens.

Calculate the area covered by water ponds.

[2]

Intermediate Numeracy Summer 2017 P2 Q2

Luigi lives in south Wales.

Rosina lives in west Wales.

For each of the first 65 days of 2017, they recorded whether or not it rained.

Luigi recorded that it rained on 28 of these days.

Rosina recorded that it rained on 40% of these 65 days.

Luigi says,

'For the first 65 days of 2017, there were more days with rain where I live than where Rosina lives.'

Is Luigi correct?

You must show all your working.

[3]

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Intermediate Maths Nov 2018 P2 Q4

Choose any number.

Show that  $\frac{1}{5}$  of 25% of your number =  $\frac{1}{4}$  of 20% of your number.

[4]

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Intermediate Maths Sample 2 P2 Q4

(a) Calculate 38% of 15.6.

[2]

(b) Express 52 as a percentage of 80.

[2]

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Intermediate Maths Nov 2017 P1 Q4

A fraction is written as  $\frac{a}{b}$ .

- The fraction is a multiple of 0.2.
- The fraction is greater than  $\frac{1}{2}$ .
- The fraction is less than 75%.

Write down the fraction as  $\frac{a}{b}$ , where  $a$  and  $b$  are whole numbers.

[3]

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Intermediate Maths Summer 2018 P2 Q4

Which of the following fractions is nearest to  $\frac{1}{4}$ ?

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

$$\frac{7}{25}$$

$$\frac{13}{50}$$

You must show all your working.

[3]

Intermediate Numeracy Nov 2018 P1 Q4b

In 2016, *Merefod* town council recorded the total mass of rubbish recycled.  
Of this total mass, 130230 tonnes was paper and cardboard.

This amount of paper and cardboard was  $\frac{1}{4}$  of the total mass of rubbish recycled.

Calculate the total mass of rubbish recycled. [2]

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Intermediate Maths Sample 2 P1 Q5

Calculate 20% of  $\frac{1}{4}$  of 120.

[4]

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Intermediate Numeracy Nov 2016 P1 Q5a

Students are taking tests in English and Welsh.  
The English test is marked out of 80.  
The Welsh test is marked out of 70.

- (i) Dyfed scores 35 in his English test.  
Estimate Dyfed's score as a percentage.  
Circle your answer. [1]

4%                  20%                  23%                  44%                  51%

- (ii) Liam scores 22 in his Welsh test.  
Estimate Liam's score as a percentage.  
Circle your answer. [1]

0.3%                  3%                  22%                  31%                  40%

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Intermediate Maths Nov 2017 P2 Q6a

Express 54 as a percentage of 129.  
Give your answer to the nearest whole number. [3]

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Intermediate Maths Nov 2016 P2 Q7

**Show clearly** whether the following statement is true or false. [4]

'If you increase a positive number by 10% and then decrease that new value by 10%, you get back to your original number.'

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Intermediate Numeracy Summer 2019 P1 Q7a

*Sam's Garden Centre* buys trees to sell.

Sam bought 200 trees.  
Each tree cost Sam £25.

22% of the trees were not sold.  
Sam sold all the other trees for £40 each.

How much profit did Sam make?

You must show all your working. [5]

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*Tube Cycles* makes a large number of bikes each day.

- (a) On 1st December 2016, 4000 bikes were made at the *Tube Cycles* factory.  
The *Tube Cycles* factory was working at 80% capacity on that day.  
This means that only 80% of the maximum possible number of bikes were made.  
When the factory works at 95% capacity, how many bikes are made in one day? [3]

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Numeracy Nov 2018 P1 Q9a

Jade is planning a weekend break to celebrate her 21st birthday.  
The weekend break costs £350.  
Jade's father says,

'If you save 21% of your earnings each week for the next 20 weeks, I will give you the rest of the money you need.'

Jade earns £72 per week.  
How much is Jade's father offering to pay towards her weekend break?  
You must show all your working. [4]

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Intermediate Maths Summer 2018 P1 Q10c

Calculate  $\frac{4}{5} \div \frac{1}{4}$ .

Circle the correct answer. [1]

$1\frac{3}{5}$        $\frac{1}{5}$        $\frac{5}{16}$       5       $3\frac{1}{5}$

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Intermediate Numeracy Sam 2 P2 Q11a

The North Hoyle Offshore Wind Farm is located approximately 7.5 km off the coast of North Wales.

When this wind farm opened, it was working at 35% of its full capacity, and it produced enough annual electricity for 50 000 homes.  
For how many homes would the wind farm have been able to produce electricity each year if it had worked at full capacity? [2]

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Intermediate Maths Nov 2018 P1 Q12b

Calculate the value of the reciprocal of 0.2. [2]

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