

# Multiplying and dividing by 10, 100 and 1000 – 1

## Short cuts for whole numbers

### Multiply by 10

Add **one** nought

**Note**

10 has one nought  
Add **one** nought

**Examples**

$27 \times 10 = 270$   
 $285 \times 10 = 2850$

### Multiply by 100

Add **two** noughts

**Note**

100 has two noughts  
Add **two** noughts

**Examples**

$38 \times 100 = 3800$   
 $427 \times 100 = 42\,700$

### Multiply by 1000

Add **three** noughts

**Note**

1000 has three noughts  
Add **three** noughts

**Examples**

$64 \times 1000 = 64\,000$   
 $721 \times 1000 = 721\,000$

### Divide by 10

Remove **one** nought

**Note**

10 has one nought  
Remove **one** nought

**Examples**

$280 \div 10 = 28$   
 $3600 \div 10 = 360$

### Divide by 100

Remove **two** noughts

**Note**

100 has two noughts  
Remove **two** noughts

**Examples**

$700 \div 100 = 7$   
 $3800 \div 100 = 38$

### Divide by 1000

Remove **three** noughts

**Note**

1000 has three noughts  
Remove **three** noughts

**Examples**

$43\,000 \div 1000 = 43$   
 $172\,000 \div 1000 = 172$

$28 \div 10$  [See page 12]      $70 \div 100$  [See page 12]

## Multiplying and dividing by 0.1, 0.01 and 0.001


**Multiplying by** 0.1 is the same as **dividing** by 10  
 0.01 is the same as **dividing** by 100  
 0.001 is the same as **dividing** by 1000

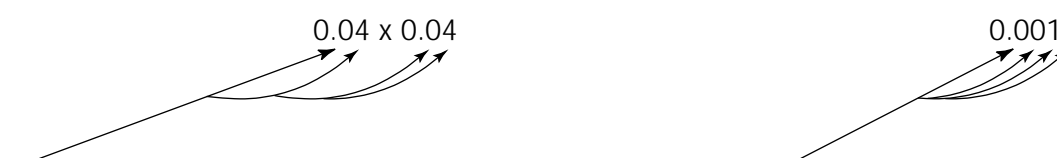
**Dividing by** 0.1 is the same as **multiplying** by 10  
 0.01 is the same as **multiplying** by 100  
 0.001 is the same as **multiplying** by 1000

### Examples

2.8  $\div$  0.01 is the same as 2.8  $\times$  100 = 280  
 37.1  $\times$  0.1 is the same as 37.1  $\div$  10 = 3.71  
 4.8  $\div$  0.001 is the same as 4.8  $\times$  1000 = 4800  
 6.214  $\times$  0.01 is the same as 6.214  $\div$  100 = 0.06214

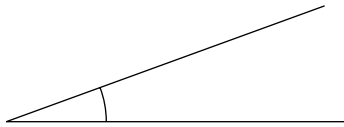
## Squaring numbers less than 1

$(0.3)^2$  means  $0.3 \times 0.3$  forget the noughts  $3 \times 3 = 9$   
 $0.3 \times 0.3$   $0.09$   
  
**Two** numbers **after** the point in the question. Therefore **two** numbers **after** the point in the answer.

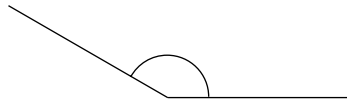
$(0.04)^2$  means  $0.04 \times 0.04$  forget the noughts  $4 \times 4 = 16$   
 $0.04 \times 0.04$   $0.0016$   
  
**Four** numbers **after** the point in the question. Therefore **four** numbers **after** the point in the answer.

# Estimate the size of each angle

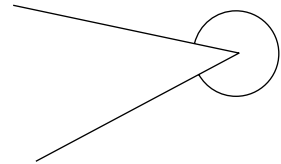
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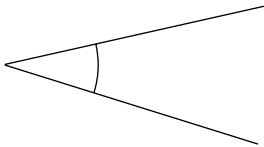
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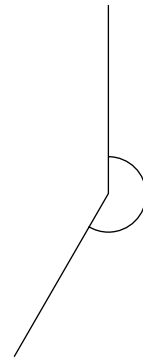
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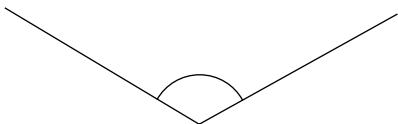
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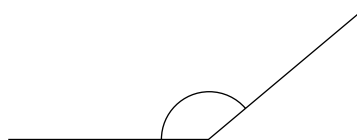
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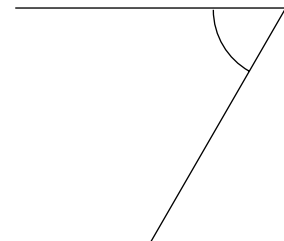
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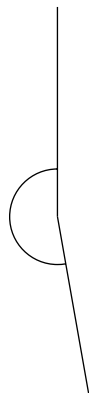
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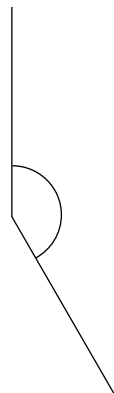
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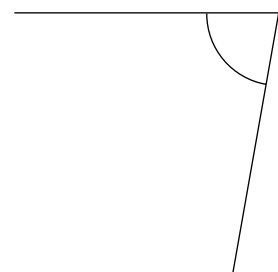
10



11



12



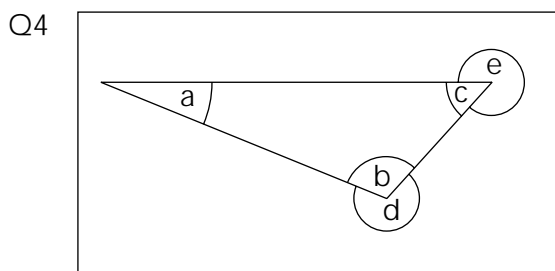
# Foundation information sheet

Q1  
Q2

Menu	
Tea (large)	50p
Tea (small)	35p
Coffee	70p
Cola (large)	85p
Cola (medium)	65p
Cola (small)	40p

Q3

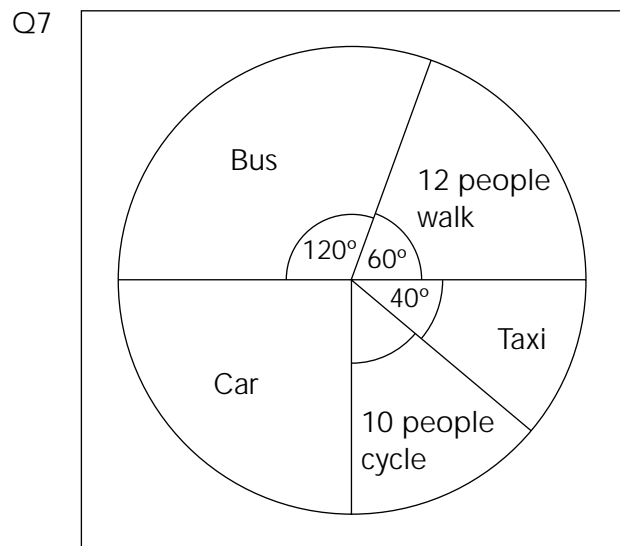
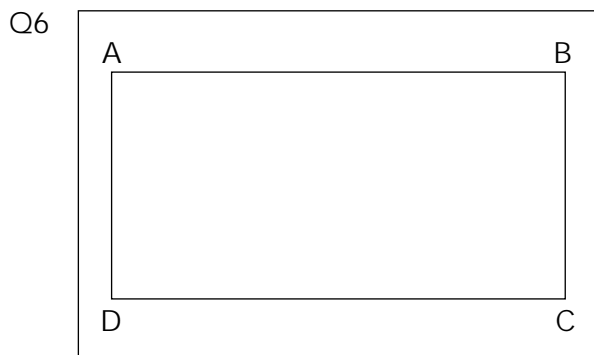
City	Temperature
York	-6°C
Oslo	-18°C
Rome	17°C
Paris	2°C



Q5

**Soup** Recipe for 6 people

- 1200 ml water
- 3 tomatoes
- 150 g beef
- 12 g salt



Q8

2, 4, 4, 7, 8, 8, 8, 9

