# Entry 3 Numeracy test – vocabulary and revision notes

## Numbers

Negative numbers – for example, -5 pronounced 'minus five'
Multiples – 3, 6, 9, 12, 15 are multiples of 3
Double – multiply by 2 (verb: to double)
Half – divide by 2 (verb: to halve)
Even Numbers – numbers which can be divided exactly by 2 – e.g. 2, 4, 6, 10, 24, 276
Odd Numbers – numbers which cannot be divided exactly by 2 – e.g. 1, 3, 5, 9, 211, 93

## Rounding

Example 1: Round 47 to the nearest 10. Is 47 nearer to 40 or to 50? It is nearer to 50, so 47 rounded to the nearest 10 is 50.
Example 2: Round 378 to the nearest 100. Is 378 nearer to 300 or 400? It is nearer to 400, so 378 rounded to the nearest 100 is 400.
Example 3: Round 1275 to the nearest 10. Is it nearer to 1270 or 1280? It is exactly half-way. In this situation, we go up, so the answer is 1280.
Example 4: Round £2.76 to the nearest 10p. Is it nearer to £2.70 or £2.80? It is nearer to £2.80, so £2.76 rounded to the nearest 10p is £2.80.
Example 5: Round £12.36 to the nearest £1.00. Is it nearer to £12.00 or £13.00? It is nearer to £12.00, so £12.36 rounded to the nearest £1.00 is £12.00.

## Estimating

Estimate the answer to 4.8 x 3.9 This is approximately the same as 5 x 4 = 20. So the estimated answer to 4.8 x 3.9 is 20
Estimate the answer to £6.95 x 5.8 This is approximately the same as £7 x 6 = £42. So the estimated answer to £6.95 x 5.8 is £42.

## Fractions

In any fraction, the 'top number' is called the numerator and the 'bottom number' is called the denominator.
A Unit Fraction is any fraction where the numerator is 1.
Fractions which are equal are called Equivalent, for example 2/4 and 1/2.

<u>Find a unit fraction part</u>

¼ of 240: divide by the bottom number.
Example:
240 ÷ 4 = 60
So: ¼ of 240 = 60

<u>Simplify (cancel down) fractions</u>

$\frac{3}{9}$ Find a number that you can divide both top and bottom number by. In this case it would be 3. There is 1 three in 3 and 3 threes in 9, therefore

$\frac{3 \div 3}{9 \div 3} = \frac{1}{3}$

This resource kindly contributed by Ruth Colclough, Newcastle College ruth.colclough@ncl-coll.ac.uk . Originally written for ESOL students taking the E3 numeracy test (without attending a course) but useful for all Entry Level 3 numeracy students.

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Fractions and Decimals that are equal (the same)

| Fraction | Decimal |
|---|---|
| 1 | 1 |
| $\frac{1}{2}$ | 0.5 |
| $\frac{1}{4}$ | 0.25 |
| $\frac{3}{4}$ | 0.75 |
| $\frac{1}{10}$ | 0.1 |
| $\frac{1}{5}$ | 0.2 |
| $\frac{1}{3}$ | 0.33 |
| $\frac{2}{3}$ | 0.67 |

## Measurement

### Length

| | | | | | |
|---|---|---|---|---|---|
| 100cm | = | 1m | cm -> m | ÷ 100 | |
| 1m | = | 100cm | m -> cm | x 100 | |
| 10mm | = | 1cm | mm -> cm | ÷ 10 | cm -> mm x 10 |
| 1000mm | = | 1m | mm -> m | ÷ 1000 | m -> mm x 1000 |
| 1000m | = | 1km | m -> km | ÷ 1000 | km -> m x 1000 |

### Liquid / Water / Capacity

| | | | | | |
|---|---|---|---|---|---|
| 1000 ml | = | 1l | ml -> l | ÷ 1000 | l -> ml x 1000 |

### Weight

| | | | | |
|---|---|---|---|---|
| 1000g | = | 1kg | g -> kg ÷ 1000 | kg -> g x 1000 |

### Time

Twelve Hour Clock Half past three in the afternoon is 3.30pm. In the morning it is 3.30am.

Twenty Four Hour Clock Half past three in the afternoon is 15.30. In the morning it is 03.30.

**Temperature** 25°C is said 'Twenty five degrees Celsius'

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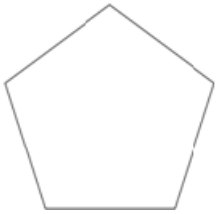
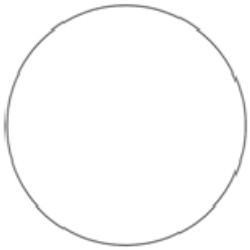
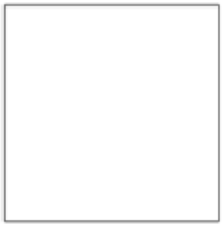
## Shape and space

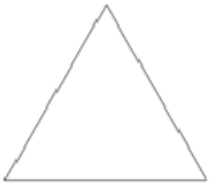
**Symmetry** A symmetrical shape can be folded in half so that the halves match. The fold line is a **line of symmetry**.

### 2D Shapes (flat shapes)


pentagon


circle

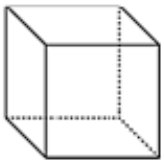

square

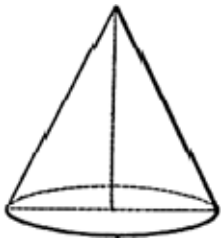

triangle

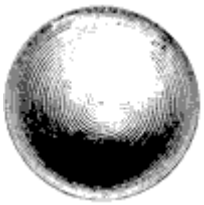

rectangle

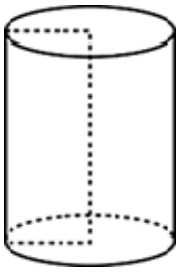

hexagon

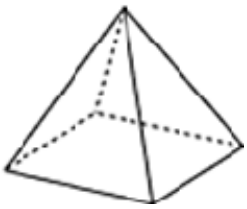
### 3D Shapes (solid shapes)

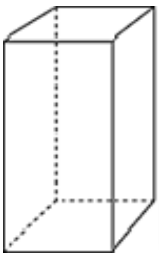

cube


cone

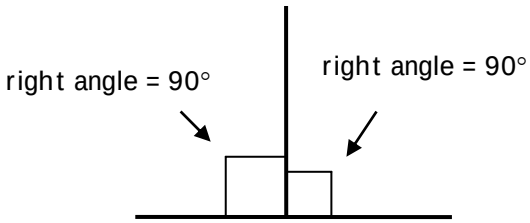

sphere


cylinder


pyramid


cuboid

### Right angles




So there are 2 right angles in a straight line

Shapes clip art from http://etc.usf.edu/clipart/

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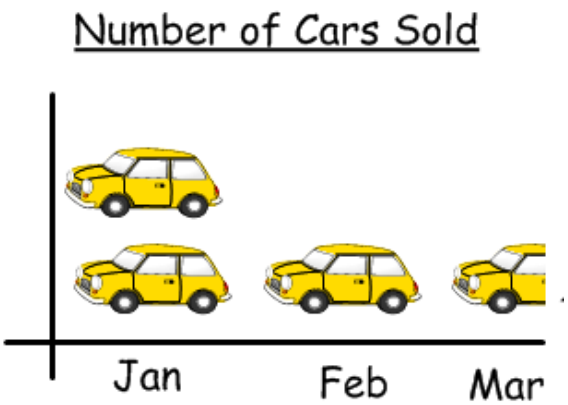
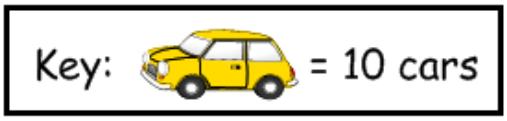
## Data Handling

Bar Chart




Pictogram

Tally Chart

In a Tally Chart, IIII = 4 and ~~IIII~~ = 5. So the line **across** is 5!

| Colour of car | Tally | Frequency |
|---|---|---|
| Black | ~~IIII~~ ~~IIII~~ II | 12 |
| White | ~~IIII~~ III | 8 |
| Green | III | 3 |
| Blue | ~~IIII~~ ~~IIII~~ ~~IIII~~ III | 18 |
| Red | ~~IIII~~ | 5 |

## Vocabulary

**+** add, increase, go up, addition, more, plus

**-** reduce/reduction, minus, take away, subtract, less, decrease

**x** multiply, lots of, times, times as many/much

**÷** divide, share, equally between, lots of, per person

**=** equals, same as

**Capacity** – millilitres, centilitres, litres
**Weight** – grams, kilograms
**Length** – millimetres, centimetres, metres, kilometres, miles

**Go up** Increase – Ascending
**Go down** Decrease – Descending

**In order** – put these numbers 'in order' from the biggest to the smallest
**5, 3, 0, 8, 2, 6, 1** **Answer: 8, 6, 5, 3, 2, 1, 0**

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