المدرسـة الوطنيـة الدوليـة
صندوق بريد 22698

هـاتف 40174930
info@awisdoha.com
Doha Q
T: (+974) 4017-4930
info@awisdoha.com

## Power Maths Key Vocabulary

Year 4 - Block C


|  |  | Amir has these digits cards. <br> 4 <br> 6 <br> 3 <br> 2 <br> He uses them to fill the frame below: <br> He makes a total that is more than three pounds but less than six pounds. <br> How many amounts can he make? <br> Order your amounts in ascending order. $\begin{aligned} & (£ 3.24, £ 3.26 £ 3.42, £ 3.46 £ 3.62 \text {, } \\ & £ 3.64 £ 4.23, £ 4.26 £ 4.32, £ 4.36 \\ & £ 4.62, £ 4.63 \text { ) } \end{aligned}$ |
| :---: | :---: | :---: |
| estimate | To find a value that is close enough to the right answer, usually without the need of a written calculation. | Which of these calculations give an answer of about 100? $\begin{array}{r} 314-238 \\ 654-425 \\ 237-132 \\ 928-727 \\ (237-132) \end{array}$ <br> Which of these calculations give an answer of about 900? $\begin{array}{r} 2334-1429 \\ 4294-3213 \\ 3061-1042 \\ 2471-1353 \\ (2334-1429) \end{array}$ |
| total | Total is the whole amount, the result of adding smaller amounts together. | $\begin{aligned} & 6,321+3,284= \\ & (9,605) \end{aligned}$ <br> James plays a video game twice. He scores 345 points on his first go, and 277 points on his second. What was his total score? (622) |


|  |  | Which of these totals are correct? Mark with a tick $(\boldsymbol{\vee})$ or a cross $(\mathbf{x})$. <br> a) $\mathbf{3 + 5 + 8 + 7 = 2 2}$ <br> b) $\mathbf{2 0}+\mathbf{6 0}+\mathbf{3 0} \boldsymbol{+ 5 0}=\mathbf{1 8 0}$ <br> c) $\mathbf{4 0 0}+\mathbf{3 0 0}+\mathbf{6 0 0} \mathbf{+ 8 0 0} \mathbf{= \mathbf { 2 0 0 0 }}$ <br> d) $\mathbf{9 0}+\mathbf{7 0} \boldsymbol{+ 8 0} \boldsymbol{+ 6 0}=\mathbf{3 0 0}$ |
| :---: | :---: | :---: |
| second | The basic unit of time. <br> There are 60 seconds in 1 minute and 3,600 seconds in an hour. <br> In this clock the hand that moves the fastest shows the seconds. It is called the "Second Hand". <br> One second is approximately the time of one heartbeat when you are resting. You can get a rough count of seconds by saying "one cat-and-dog, two cat-and-dog, three cat-and-dog, ... " etc., or you may prefer "a-thousand-and one, a-thousand-and two, a-thousandand three, ... " | A car started a rally at 8:15 am. It completed the rally in 4 hours 24 minutes. At what time did the car finish the rally? <br> (12:39) <br> One hour = $\qquad$ minutes <br> One minute = $\qquad$ seconds. <br> Two hours = $\qquad$ minutes <br> Three minutes = $\qquad$ seconds. <br> Josh reads a chapter of his book in 5 minutes and 28 seconds. Tom reads a chapter of his book in 300 seconds. Who reads their chapter the quickest? <br> (Tom) |
| minute | A minute is a period of time equal to sixty seconds or a sixtieth of an hour. | Jack takes part in a sponsored silence. |
| hour | An hour is a period of time equal to 60 minutes. <br> There are 24 hours in a day. | Do you agree with Jack? <br> Explain why you agree or disagree. <br> (Jack is incorrect. There are 60 minutes in an hour so $60 \times 10 \mathrm{p}=$ 600 p or $£ 6 £ 6 \times 5=£ 30$ ) |
| day | A day is approximately the period of time during which the Earth completes one rotation around its axis. <br> There are 24 hours in a day. | Use a calendar to help you complete the sentences. <br> There are $\qquad$ months in a year. <br> There are $\qquad$ days in February. |
| week | A week is a period of 7 days. | $\qquad$ months have 30 days, and $\qquad$ months have 31 days. There |


| month | A month is a unit of time, used with calendars. It can also be defined as period of 4 weeks or 30 days. | are $\qquad$ days in a year and $\qquad$ days in a leap year. <br> Complete the table |
| :---: | :---: | :---: |
| year | A year is a period of 12 months or 365 or 366 days. It is the time taken by the earth to make one revolution around the sun. | Number of days ${ }^{\text {Number of weeks }}$ |
|  |  | - 5 |
|  |  | 12 |
|  |  | Sally is 7 years and 2 months old. Macey is 85 months old. Who is the oldest? Explain your answer. (Macey as she is 7 years and 1 month old) |
| 12-hour | The 12 -hour clock is a time convention in which the 24 hours of the day are | Annie converts the analogue time to digital format. |
|  | divided into two periods: a.m. (before midday) and p.m. (after midday). | Here is her answer. |
|  |  |  |
| 24-hour | The 24-hour clock is a way of telling the time in which the day runs from midnight to midnight and is divided into 24 hours. 00:00 is used to mean the beginning of the day. | (Annie has recorded the minutes past the hour first instead of the hour. The time should be 02 : 22) |
|  |  | Write in the missing numbers of the times on the clocks, and in the boxes below give the digital times for each. |
|  |  |  |
| digital | A digital clock is a type of clock that displays the time digitally, i.e. in numerals or other symbols. | 10 minutes past |
|  |  |  |
| analogue | An analogue clock is a clock or watch that has moving hands and (usually) | (10 minutes past 3, 03:10 or 15:10) |


|  |  |
| :--- | :--- |



| bar chart | A bar chart is a graph drawn using rectangular bars to show how large each value is. <br> The bars can be horizontal or vertical. Favourite Colour |  <br> Can you spot Rosie's mistake? How many people were asked altogether? <br> (Rosie has read the bar chart incorrectly. 15 people chose vanilla, 19 people chose chocolate, 10 chose strawberry and 12 chose mint. That means 56 people were asked altogether.) |
| :---: | :---: | :---: |
| quadrilateral | A quadrilateral is a 2D shape made up of 4 straight sides. A square is an example of a quadrilateral. | Here are some quadrilaterals. <br> Mark any right angles on the shapes. One shape has been done for you. <br> Mark any pairs of parallel lines. One shape has been done for you. <br> Which shapes do not have any right angles? |
| triangle | A triangle is a closed, two-dimensional shape with three straight sides. <br> A triangle is also a polygon. | Use true or false to say which shapes are triangles. $\Delta \Delta V \square \Delta \Delta$ |


|  |  | (true, false, true, true, true, false, false, false) |
| :---: | :---: | :---: |
| regular | The definition of a regular shape is that all the sides are equal and all the inside angles are equal. | Sort these 2D shapes in the Carroll diagram. Put the letters A-E in the correct places. <br> (E) |
|  |  | quadrilateral |
|  |  | qut a quadrilateral |
| irregular | An irregular shape is a shape which has sides and angles of any length and size. <br> Irregular <br> octagon | Write the name of a different 2D shape that is an example of an irregular quadrilateral in the correct place on the diagram. <br> What type of triangle must be placed in the 'regular' and 'not a quadrilateral' section? (equilateral) |
| angle | An angle is a measure of a turn, measured in degrees or ${ }^{\circ}$. There are $360^{\circ}$ in a full turn. <br> You can find out the size of an angle using a protractor. | An angle of less than 90 degrees is called... (acute) <br> Order the angles from smallest to largest. <br> A (B, A, C, D) |
| interior angle | An interior angle is inside a shape, between 2 joined sides. | A right angle is $\square$ degrees. <br> An acute angle is $\qquad$ than $\square$ degrees. <br> An obtuse angle is $\qquad$ than $\square$ degrees but less than $\square$ degrees. <br> How many right angles are there in 1 whole complete turn? (4) |
| acute | An acute angle is an angle that measures between $90^{\circ}$ and $0^{\circ}$, meaning it is smaller than a right angle (an "L" shape) but has at least some space between the two lines that form it. A " $V$ " shape is an example of an acute angle. | Tick all of the obtuse angles. <br> Is the angle acute, obtuse or a right angle? <br> a) $35^{\circ}$ (acute) |


|  |  | b) $99^{\circ}$ (obtuse) <br> c) $90^{\circ}$ (right) <br> d) $89^{\circ}$ (acute) <br> e) $121^{\circ}$ (obtuse) <br> f) $179^{\circ}$ (obtuse) |
| :---: | :---: | :---: |
| obtuse | An obtuse angle has a measurement greater than 90 degrees but less than 180 degrees. <br> Examples of obtuse angles are: $100^{\circ}$, $120^{\circ}, 140^{\circ}, 160^{\circ}, 170^{\circ}$ etc. | How do you know? |
| reflex | A reflex angle is more than $180^{\circ}$ but less than $360^{\circ}$. | Do you agree with Teddy? Explain your answer. <br> (angle $B$ is acute because it is less than $90^{\circ}$ ) <br> Are the statements always true, sometimes true or never true? Explain your answer. |
| right angle | A right angle is equal to $90^{\circ}$, one quarter of a full revolution. <br> We can find the right angles in shapes. <br> A square or rectangle has four corners with right angles. <br> All triangles with one angle right are called right-angled triangles. | a) An obtuse angle is a greater turn than an acute angle. (always true) <br> b) An acute angle is a greater turn than a right angle turn. (never true) <br> c) If you turn through two acute angles you will have turned through an obtuse angle. (sometimes true) <br> Tick all of the acute angles. |
| horizontal | A horizontal line is one which runs left-to-right across the page. | Which pencil is vertical? Which pencil is horizontal? |


|  | It comes from the word 'horizon', in the sense that horizontal lines are parallel to the horizon. |  |
| :---: | :---: | :---: |
| vertical | A vertical line is one which runs up and down the page. <br> A vertical line is perpendicular to a horizontal line. | How many vertical pencils can you see below? (4) <br> How many horizontal pencils can you see? (4) |

