|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sheet 1 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | If the area of a rectangle is 12cm2. What could be its length and its width? | | | **11** | Circle the odd numbers from the list below  13 24 36 49 101 130 |
| **2** | |  |  |  | | --- | --- | --- | | 4 |  |  | |  | 6 | 1 | |  |  | 8 |   In a magic square, all rows, columns and diagonals must add up to the same total. Complete this magic square. | | | **12** | Simplify  a + a + a + a + b + b |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Add together 45, 82 and 23 (show working) | | | **13** | If x=4 what is the value of 12+x? |
| **4**  Give this diagram reflective symmetry about the dotted line. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifComplete the calculation  Show working | | | **14** | I think of a number, multiply it by 2 and add 1. My answer is 15. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | During the day the temperature was 6oC. At night it fell by 10 oC. What was the nighttime temperature? |
| **6** | This graph shows the number of homeworks Amy had over a week. How many did she have altogether? | | | **16** | What is the mode of the following numbers:  4, 7, 2, 4, 2, 2, 8, 7, 4, 2 |
| **7** | Estimate the length of your maths classroom in metres. | | | **17** | Measure this angle using a protractor. |
| **8** | How many cubes are needed to make the following shape (don’t forget to count the ones you can’t see)? | | | **18** | Convert 50% into a fraction. |
| **9** | Arrange these numbers in ascending order  0.12, 1.2, 0.012, 12 | | | **19** | If you roll a dice, what is the probability of getting a 4? |
| **10** | Round 749 to the nearest hundred. | | | **20** | On the grid, plot the point (2, 3) |
| Mark  Comments | | | Effort |  | |
| Sheet 2 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | If the area of a rectangle is 20cm2. What could be its length and its width? | | | **11** | Circle the factors of 12 from the list below  1 2 3 4 5 6 7 8  Which factor is missing? |
| **2** | |  |  |  | | --- | --- | --- | | 8 | 2 | 11 | |  | 7 |  | |  |  |  |   In a magic square, all rows, columns and diagonals must add up to the same total. Complete this magic square. | | | **12** | Simplify  a + a + a + a + b + a + a + b + b |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Work out 125 – 78 (show working) | | | **13** | If x=7 what is the value of 20 - x? |
| **4**  Give this diagram reflective symmetry about the dotted lines. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifComplete the calculation  Show working | | | **14** | I think of a number, multiply it by 3 and subtract 1. My answer is 29. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | During the day the temperature was 8oC. At night it fell by 12 oC. What was the nighttime temperature? |
| **6** | This graph shows the number of homeworks Amy had over a week. On which two days was she set the same number of homeworks? | | | **16** | What is the median of the following numbers:  4, 7, 2, 4, 2, 2, 8, 7, 4, 2, 5 |
| **7** | Estimate the height of your maths classroom in metres. | | | **17** | Measure this angle using a protractor. |
| **8** | How many cubes are needed to make the following shape (don’t forget to count the ones you can’t see)? | | | **18** | Convert 25% into a fraction. |
| **9** | Arrange these numbers in ascending order  5.1, 15, 51, 1.5, 0.51, 0.15, | | | **19** | If you roll a dice, what is the probability of getting a 6? |
| **10** | Round 939 to the nearest ten. | | | **20** | On the grid, plot the point (-2, 1) |
| Mark  Comments | | | Effort |  | |
| Sheet 3 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | If the area of a rectangle is 24cm2. What could be its length and its width? | | | **11** | Circle the square numbers in the list below  1 3 4 7 9 14 16 20 25 |
| **2** | |  |  |  | | --- | --- | --- | |  |  |  | | 10 | 8 | 6 | | 9 |  |  |   In a magic square, all rows, columns and diagonals must add up to the same total. Complete this magic square. | | | **12** | Simplify  a + b + c + b + c + c |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Add together 130, 212 and 341 (show working) | | | **13** | If y=11 what is the value of 4y? (4y means 4 times y) |
| **4**  Give this diagram reflective symmetry about the dotted line. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifComplete the calculation  Show working | | | **14** | I think of a number, multiply it by 4 and subtract 5. My answer is 19. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | At night the temperature was -3oC. During the day it rose by 12 oC. What was the daytime temperature? |
| **6** | Dave was set 14 homeworks in one week. Complete the bar chart for the number of homeworks he received on Friday? | | | **16** | What is the mean of the following numbers:  10, 20, 10, 40 |
| **7** | Estimate the capacity (volume of liquid the can holds) of a can of coke in millilitres. | | | **17** | Measure this angle using a protractor. |
| **8** | How many cubes are needed to make the following shape (don’t forget to count the ones you can’t see)? | | | **18** | Convert 75% into a fraction. |
| **9** | Arrange these numbers in ascending order  2, -4, 5, 0, -6, 6 | | | **19** | If you choose a letter at random from the word PROBABILITY, what is the probability of choosing the letter I? |
| **10** | Round 1339 to the nearest hundred. | | | **20** | On the grid, plot the point (-3, -1) |
| Mark  Comments | | | Effort |  | |
| Sheet 4 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | A triangle has height 5cm and base 6cm. What is its area? | | | **11** | Circle the multiples of 3 in the list below  13 23 27 36 40 42 57 60 |
| **2** | |  |  |  | | --- | --- | --- | | 14 |  |  | | 5 |  |  | | 8 |  | 4 |   In a magic square, all rows, columns and diagonals must add up to the same total. Complete this magic square. | | | **12** | Simplify  3a + 9a |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Subtract 58 from 110 (show working) | | | **13** | If y=5 what is the value of 8y? |
| **4**  Give this diagram reflective symmetry about the dotted line. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifComplete the calculation  Show working | | | **14** | I think of a number, multiply it by 3 and subtract 9. My answer is 51. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | At night the temperature was -10oC. During the day it rose by 17 oC. What was the daytime temperature? |
| **6** | Ed was set 13 homeworks in one week. Complete the bar chart for the number of homeworks he received on Friday? | | | **16** | What is the mean of the following numbers:  1, 4, 2, 5, 3 |
| **7** | Estimate the height of your classroom door in cm. | | | **17** | Use a protractor to draw an angle of 40 degrees. |
| **8** | How many cubes are needed to make the following shape (don’t forget to count the ones you can’t see)? | | | **18** | Convert 57% into a decimal. |
| **9** | Arrange these numbers in ascending order  2.2, 0.2, 0.02, 0.22, 0.002 | | | **19** | If you choose a letter at random from the word PROBABILITY, what is the probability of choosing a B? |
| **10** | Round 5399 to the nearest thousand. | | | **20** | On the grid, plot the point (0, 3) |
| Mark  Comments | | | Effort |  | |
| Sheet 5 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | A triangle has height 10cm and base 2cm. What is its area? | | | **11** | Circle the multiples of 4 in the list below  20 22 28 34 39 48 |
| **2** | Using the digits 1, 2, 3 and 4 complete the calculation  ×  = | | | **12** | Simplify  5a - 2a |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Add together 313, 9 and 28 (show working) | | | **13** | If y=20 what is the value of y÷4? |
| **4**  Give this diagram reflective symmetry about the dotted lines. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifComplete the calculation  Show working | | | **14** | I think of a number, divide it by 2 and add 6. My answer is 15. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | At night the temperature was -5oC. During the day it was 8 oC. What is the difference between these temperatures? |
| **6** | The pie chart shows how Fiona spends her evenings. Roughly what % of her time is spend doing homework?  Friends  TV  Other  H/W | | | **16** | What is the median of the following numbers:  5, 3, 8, 5, 3, 7, 4 |
| **7** | Estimate the distance from Highams Park station to Highams Park school in metres. (Hint – it takes roughly 20 mins to walk 1000m) | | | **17** | Use a protractor to draw an angle of 140 degrees. |
| **8** | How many cubes are needed to make the following shape? | | | **18** | Convert 83% into a decimal. |
| **9** | Arrange these numbers in **descending** order  -10, 9, -8, 7, -6, 5 | | | **19** | If you choose a letter at random from the word PROBABILITY, what is the probability of choosing a B or an I? |
| **10** | Round 6.27 to the one decimal place. | | | **20** | On the grid, plot the point (4, 0) |
| Mark  Comments | | | Effort |  | |
| Sheet 6 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | A parallelogram has height 4cm and base 8cm. What is its area? | | | **11** | Circle the multiples of 7 in the list below  21 23 28 33 35 39 44 49 56 |
| **2** | Using the digits 2, 7, 8 and 9 to complete the calculation  ×  = | | | **12** | Simplify  6a + 5a + 3b + 9b |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Add together 9, 99, and 999 (show working) | | | **13** | If y=50 what is the value of y÷10? |
| **4**  Give this diagram reflective symmetry about the dotted lines. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifWork out 365 ÷ 5  Show working | | | **14** | I think of a number, divide it by 3 and add 4. My answer is 8. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | At night the temperature was -12oC. During the day it was 13 oC. What is the difference between these temperatures? |
| **6** | The pie chart shows how Fiona spends her evenings. Roughly what % of her time is spend with friends?  Friends  TV  Other  H/W | | | **16** | What is the mode of the following numbers:  4, 6, 2, 8, 3, 6, 4, 3, 8, 4, 2, 8, 8, 4, 2, 8 |
| **7** | Estimate the length of a paper clip in cm. | | | **17** | Use a protractor to draw an angle of 100 degrees. |
| **8** | How many cubes are needed to make the following shape? | | | **18** | Convert 8% into a decimal. |
| **9** | Arrange these numbers in **descending** order  0.088, 0.2, 0.09, 0.13, 0.47 | | | **19** | If you choose a letter at random from the word PROBABILITY, what is the probability of choosing a vowel? |
| **10** | Round 5.883 to the one decimal place. | | | **20** | On the grid, plot the point (0, 0) |
| Mark  Comments | | | Effort |  | |
| Sheet 7 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | A triangle has height 3cm and base 9cm. What is its area? | | | **11** | Circle the factors of 20 in the list below   1. 2 3 4 5 6 7 8 9 10   Which factor is missing? |
| **2** | Using the digits 1, 2, 3, 4 and 5 to complete the calculation  ×  = | | | **12** | Simplify  8a + 3b + 9a + 10b + 2a |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Subtract 436 from 520 (show working) | | | **13** | If a=10 and b=5, what is a + 2b |
| **4**  Give this diagram reflective symmetry about the dotted lines. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifhttp://everydaymath.uchicago.edu/educators/images/nocalc.gifWork out 184 ÷ 4  Show working | | | **14** | I think of a number, subtract 3 then times by 2. My answer is 10. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | At night the temperature was -24oC. During the day it was -6oC. What is the difference between these temperatures? |
| **6** | The pie chart shows how Fiona spends her evenings. Roughly what % of her time is spend doing other things?  Friends  TV  Other  H/W | | | **16** | What is the range of the following numbers:  4, 6, 2, 8, 3, 6, 4, 3, 8, 4, 2, 8, 8, 4, 2, 8 |
| **7** | Estimate 4.78 x 5.03 (show how you did it) | | | **17** | Use a protractor to draw a reflex angle of 200 degrees. |
| **8** | How many cubes are needed to make the following shape? | | | **18** | Convert 0.64 into a percentage. |
| **9** | Arrange these numbers in **descending** order  0.4, 0.01, 2, 30, 5.5 | | | **19** | If you choose a letter at random from the word PROBABILITY, what is the probability of choosing an X? |
| **10** | Round 9.8625 to the two decimal places. | | | **20** | On the grid, plot three points with an x coordinate of 2  i.e. (2, ?), (2, ?) (2, ?). Join them up and label the line x=2. |
| Mark  Comments | | | Effort |  | |
| Sheet 8 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | A parallelogram has height 9cm and area 45cm2. What is the length of its base? | | | **11** | Circle the prime numbers in the list *below (prime numbers cannot be divided by any whole number apart from 1 and the number itself)*  2 3 4 5 6 7 8 9 10 11 12 |
| **2** | Using the digits 2, 3, 5, 5, and 7 to complete the calculation  ×  = | | | **12** | Simplify  10a – 6a + 3b +2b |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | Add all the whole numbers from 1 to 10 (show working) | | | **13** | If a=8 and b=9, what is 10a+b |
| **4**  Give this diagram reflective symmetry about the dotted lines. | http://everydaymath.uchicago.edu/educators/images/nocalc.gifhttp://everydaymath.uchicago.edu/educators/images/nocalc.gifWork out 512 ÷ 8  Show working | | | **14** | I think of a number, add 8 then times by 4. My answer is 40. What number was I thinking of? |
| **5** | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | | **15** | At night the temperature was -19oC. During the day it was -2oC. What is the difference between these temperatures? |
| **6** | Complete the pictogram to show 12 boys and 10 girls   |  |  | | --- | --- | |  | *key = 4 people* | | Boys |  | | Girls |  | | | | **16** | What is the range of the following numbers:  13, 8, 24, 17, 19, 26, 25, 16, 9 |
| **7** | Estimate 582 x 3.567 (show how you did it) | | | **17** | Use a protractor to draw a reflex angle of 270 degrees. |
| **8** | How many cubes are needed to make the following shape? | | | **18** | Convert 0.175 into a percentage. |
| **9** | Arrange these numbers in **descending** order  -4, 0, 2, 10, -11, 0.5 | | | **19** | If you choose a card at random from a pack of cards, what is the probability you choose a red card? |
| **10** | Round 10.005 to the two decimal places. | | | **20** | On the grid, plot three points with an y coordinate of 3  i.e. (?, 3), (?, 3), (?, 3). Join them up and label the line y=3. |
| Mark  Comments | | | Effort |  | |
| Sheet 9 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | | A parallelogram has height 8cm and area 32cm2. What is the length of its base? | | **11** | Circle the prime numbers in the list *below (prime numbers cannot be divided by any whole number apart from 1 and the number itself)*  13 14 15 16 17 18 19 20 21 22 |
| **2** | | Using the digits 1, 2, 2, 6 and 7 to complete the calculation  ×  = | | **12** | Simplify  7d + 6e – 4d – 3e |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | | Add all the whole numbers from 11 to 20(show working) | | **13** | If a=2 and b=4, what is ab *(this means a times b)* |
| **4**  Give this diagram reflective symmetry about the dotted lines. | | http://everydaymath.uchicago.edu/educators/images/nocalc.gifhttp://everydaymath.uchicago.edu/educators/images/nocalc.gifWork out 2046 ÷ 3  Show working | | **14** | I think of a number, add 5 then times by 10. My answer is 120. What number was I thinking of? |
| **5** | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | **15** | At night the temperature was -7.5oC. During the day it was 3oC. What is the difference between these temperatures? |
| **6** | | Complete the pictogram to show 18 boys and 2 girls   |  |  | | --- | --- | |  | *key = 4 people* | | Boys |  | | Girls |  | | | **16** | What is the mean of the following numbers:  6, 4, 7, 3, 5, 4, 8, 3 |
| **7** | | Estimate 823 x 7.003 (show how you did it) | | **17** | Draw a right angle. |
| **8** | | How many cm cubes are needed to make a cuboid measuring 4cm by 2cm by 1cm? | | **18** | Convert ¾ into a percentage. |
| **9** | | Between each pair of numbers put either > or <   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 5 |  | 7 |  | -3 |  | 3 | | 0.2 |  | 0.1 |  | -4 |  | -5 | | 0.5 |  | 0.05 |  | 0 |  | -3 | | | **19** | If you choose a card at random from a pack of cards, what is the probability you choose a king? |
| **10** | | Round 8.999 to the two decimal places. | | **20** | On the grid, plot three points with an y coordinate of 1  i.e. (?, 1), (?, 1), (?, 1). Join them up and label the line y=1. |
| Mark  Comments | | | Effort |  | |
| Sheet 10 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | |
| **1** | | A rectangle has an area of 10cm2. A triangle has the same area, what could the base and height of the triangle be? | | **11** | Write down all the factors of 36 (there are 9) |
| **2** | | Using the digits 0, 1, 4, 5 and 6 to complete the calculation  ×  = | | **12** | Simplify  6d+3e-5d-4e |
| **http://everydaymath.uchicago.edu/educators/images/nocalc.gif3** | | Add the first 10 odd numbers together(show working) | | **13** | If a=8 and b=5, what is 2ab |
| **4**  Give this diagram reflective symmetry about the dotted lines. | | http://everydaymath.uchicago.edu/educators/images/nocalc.gifhttp://everydaymath.uchicago.edu/educators/images/nocalc.gifWork out 660 ÷ 5  Show working | | **14** | I think of a number, add 1 then times by 6 and finally subtract 6. My answer is 54. What number was I thinking of? |
| **5** | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | | **15** | At night the temperature was -21oC. During the day it was 0oC. What is the difference between these temperatures? |
| **6** | | Complete the pictogram to show 18 boys and 14 girls   |  |  | | --- | --- | |  | *key =* ***3*** *people* | | Boys |  | | Girls |  | | | **16** | What is the mode of the following numbers:  4, 6, 4, 7, 3, 5, 4, 8, 3 |
| **7** | | Estimate 28.9÷2.99 (show how you did it) | | **17** | Angles in a triangle always add up to what? |
| **8** | | How many cm cubes are needed to make a cuboid measuring 5cm by 2cm by 3cm? | | **18** | Convert into a percentage. |
| **9** | | Between each pair of numbers put either > or <   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 8 |  | 5 |  | 3 |  | -6 | | 0.9 |  | 0.1 |  | -4 |  | -9 | | 0.04 |  | 0.4 |  | 0 |  | -8 | | | **19** | If you choose a card at random from a pack of cards, what is the probability you choose a diamond? |
| **10** | | Round 6.45 to the one decimal place. | | **20** | On the grid, plot three points with an x coordinate of -2  i.e. (-2, ?), (-2, ?), (-2, ?). Join them up and label the line x=… |
| Mark  Comments | | | Effort |  | |