**Year 11 Maths Quick Questions – 4**

Name:

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| Number | Question | Answer | Correction |
| 1 | Round 23.45 to 1dp | 23.5 |  |
| 2 | Write 0.8 as a fraction | 8/10 = 4/5 |  |
| 3 | Convert 9.5cm to mm | 95mm |  |
| 4 | Convert 8,300m to km | 8.3km |  |
| 5 | Work out 0.3 x 0.7  | 0.21 |  |
| 6 | Simplify a x a x 3 x a x 4  | $$12a^{3}$$ |  |
| 7 | Find the area of a triangle with base 3cm and height 4cm | $$6cm^{2}$$ |  |
| 8 | Work out 5+4x3 | 17 |  |
| 9 | Expand 3(2x-5)  | 6x - 15 |  |
| 10 | What is 75 minutes later than 5:30pm | 6:45pm |  |
| 11 | Solve x – 3 = 8  | X=11 |  |
| 12 | What is the square root of 100 | 10 |  |
| 13 | List the first 5 prime numbers | 2,3,5,7,11 |  |
| 14 | Convert $\frac{12}{5}$ to a mixed number  | 2 2/5 |  |
| 15 | Write down any two parts of a circle | Radius, Circumference… |  |
| 16 | Expand and simplify 5x(2x+3) | $$10x^{2}+15x$$ |  |
| 17 | Write the gradient of the line y = 3x - 5 | 3 |  |
| 18 | Work out 3 x -5  | -15 |  |
| 19 | Work out 85 divided by 5 | 17 |  |
| 20 | Find 3/5 of 205 | 123 |  |
| 21 | Write these in order (3,-5,-1,-7,0) | -7, -5, -1, 0, 3 |  |
| 22 | Write these in order (0.3, 0.23, 0.02, 0.32, 0.03) | 0.02, 0.03, 0.23, 0.3, 0.32 |  |
| 23 | Solve 2x – 4 = 20 | X= 12 |  |
| 24 | Factorise fully 9x-15 | 3(3x-5) |  |
| 25 | Simplify fully 18/30 | 3/5 |  |
| 26 | Write a multiple of 3 between 50 and 60  | 51, 54 or 57 |  |
| 27 | Find 20% of 60  | 12 |  |
| 28 | Increase 240 by 5%  | 252 |  |
| 29 | Decrease 180 by 15%  | 153 |  |
| 30 | Write 120 as a product of primes  | $$2^{3}×3×5$$ |  |
| 31 | How many sides does a pentagon have?  | 5 |  |
| 32 | Draw a cuboid  |  |  |
| 33 | Solve 8-x = 15 | X = -7  |  |
| 34 | 10 bricks weigh 5kg. How much does 1 brick weigh?  | 500g |  |
| 35 | x=3 y=4 Evaluate 3x + 2y  | 17 |  |
| 36 | What does probability add to?  | 1 |  |
| 37 | Work out $5^{0}$ | 1 |  |
| 38 | Expand and simplify 3(2x+1)+4(5x+3) | 26x + 15 |  |
| 39 | What do the angles on a straight line add to?  | 180 |  |
| 40 | What is the square root of 25 | 5 |  |
| 41 | What is the cube root of 64  | 4 |  |
| 42 | I spend £7.10 on sweets. How much change do I get from a £20 note?  | £12.90 |  |
| 43 | 40% of a class are girls. What is the ratio of boys to girls in its simplest form.  | 3:2 |  |
| 44 | 3/5 of a class are boys. What is the ratio of boys to girls in its simplest form.  | 3:2 |  |
| 45 | Split £110 in the ratio 3:7  | 33:77 |  |
| 46 | Write the ratio 5:8 in the form 1:n  | 1:1.6 |  |
| 47 | Simplify e x e x e x e  | $$e^{4}$$ |  |
| 48 | Write in standard form 5,670,000 | $$5.67×10^{6}$$ |  |
| 49 | What is 4 times as much as 7  | 28 |  |
| 50 | I buy 3 coffees for 80p each. I pay with a £5 note. How much change do I get?  | £2.60 |  |
| 51 | Factorise fully $10x^{2}-25x$ | 5x(2x – 5) |  |
| 52 | Write the nth term of: 5, 8, 11, 14  | 3n + 2 |  |
| 53 | Write the y intercept of y = 5x – 2  | -2 |  |
| 54 | I catch a bus at 8:30am and it takes 1 hour 23 minutes. What time do I arrive?  | 9:53am |  |
| 55 | Fill in the table of values for y = 2x +6

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| x | -2 | -1 | 0 | 1 | 2 |
| y | 2 | 4 | 6 | 8 | 10 |

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| 56 | Find the median of the numbers (3, 6, 7, 7, 8)  | 7 |  |
| 57 | Find the median of the numbers (6, 8, 3, 7, 7)  | 7 |  |
| 58 | What must a stem and leaf diagram always have?  | A key! |  |
| 59 | Simplify $x^{5}×x^{9}$ | $$x^{14}$$ |  |
| 60 | 30% of a class are boys. There are 9 boys. How many girls are there?  | 30 |  |
| 61 | A car travels at 30mph for an hour. How far has it travelled?  | 30 miles |  |
| 62 | Simplify 7a – 3a – 2b + 5b | 4a + 3b |  |
| 63 | Write the nth term of this sequence: 1, 7, 13, 19  | 6n - 5 |  |
| 64 | a = -2. Work out $a^{2}$ |  a = 4 |  |
| 65 | Write all the factors of 30 | 1,30 2,15 3,10 5,6 |  |
| 66 | Write the first 5 multiples of 8  | 8, 16, 24, 32, 40 |  |
| 67 | I buy 10 pens for £15 total. I sell them for £2 each. How much profit do I get?  | £5 |  |
| 68 | I get 15 out of 20 in my assessment. What percentage did I get?  | 75% |  |
| 69 | I think of a number and multiply it by 4. I then add 5 and I get 45. What number was I thinking of?  | 10 |  |
| 70 | How many seconds are in 5 minutes?  | 300 seconds |  |
| 71 | $\frac{3}{5}$ of a number is 15. What was the number?  | 25 |  |
| 72 | Work out 80 divided by 5  | 16 |  |
| 73 | Work out the area of a circle with diameter 10cm | $$25πcm$$ |  |
| 74 | An equilateral triangle has perimeter 24cm. What is the length of one of the sides?  | 8cm |  |
| 75 | What does congruent mean?  | The same |  |
| 76 | What does rotational symmetry mean?  | When you rotate a shape 360 degrees, how many times a shape will look exactly the same size  |  |
| 77 | Find the range of the numbers (10, 5, 8, 19, 6)  | 14 |  |
| 78 | $$\left(g^{4}\right)^{5}$$ | $$g^{20}$$ |  |
| 79 | What is halfway between 8 and 16? | 12 |  |
| 80 | What is halfway between 4 and 9?  | 6.5 |  |
| 81 | What is halfway between -2 and 3? | 0.5 |  |
| 82 | Solve: $\frac{x}{3}=7$ | X=21 |  |
| 83 | What is the LCM of 18 and 24  | 72  |  |
| 84 | What is the HCF of 40 and 56 | 8 |  |
| 85 | I buy 8 sweets for £4.80 in total. How much would it cost me to buy 10 sweets?  | £6.00 |  |
| 86 | $$\frac{2}{7}÷5$$ | 2/35 |  |
| 87 | 177 divided by 3  | 59 |  |
| 88 | How many vertices does a cube have? | 8 |  |
| 89 | How many faces does a cylinder have? | 3 |  |
| 90 | Find the mean of the numbers (5,6,7) | 6 |  |
| 91 | Find the product of 8 and 6  | 48 |  |
| 92 | Write down a 3 digit number that is a multiple of 5 | 100, 105, 110, 115, 120… |  |
| 93 | Expand and simplify (x+5)(x+2) | $$x^{2}+7x+10$$ |  |
| 94 | Finish the sentence “Corresponding angles are…” | equal |  |
| 95 | Given £1:$1.20. Convert £50 to dollars. | $60 |  |
| 96 | Solve: $x^{2}=81$ | $$x= \pm 9$$ |  |
| 97 | I travel 90 miles at a speed of 60mph. How long does it take me?  | 1 and a half hours |  |
| 98 | Solve: 3x-2 <13 | x<5 |  |
| 99 | Write the inequality in words: x>4 | X is greater than 4 |  |
| 100 | In the space below and using a compass, draw a circle of radius 5cm.  |  |  |

5cm