**Year 11 Maths Quick Questions – Set 1 – Day 2**

Name:

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| Number | Question | Answer | Correction |
| 1 | Write 3468 to the nearest 1000 | 3000 |  |
| 2 | What is the value of the 7 in the number 3765? | 700 |  |
| 3 | Write 19% as a fraction | 0.19 |  |
| 4 | Write 0.45 as a percentage | 45% |  |
| 5 | Write 85% as a fraction in its lowest terms | 17/20 |  |
| 6 | 0.3 x 0.5 | 0.15 |  |
| 7 | How many cm in 7.3m | 730cm |  |
| 8 | How many g in 2.3 Kg | 2300g |  |
| 9 | Change 10cm into mm | 100mm |  |
| 10 | How many minutes is 2hrs 30 minutes | 150mins |  |
| 11 | How many seconds is 6 minutes and 48 seconds | 408seconds |  |
| 12 | What is 3 cubed | 27 |  |
| 13 | What is 12 squared | 144 |  |
| 14 | 24 | 16 |  |
| 15 | 107 | 10000000 |  |
| 16 | What is the square root of 121 | 11 |  |
| 17 | What is the cube root of 64 | 4 |  |
| 18 | 7 + 30 x 2  | 67 |  |
| 19 | 15 + 40 ÷ 10 | 19 |  |
| 20 | Write 14/21 as a fraction in its simplest form | 2/3 |  |
| 21 | Which is the smallest (0.523, 0.05 or 0.255) | 0.05,0.255,0.523 |  |
| 22 | What is the range of these numbers (8,2,3,1,14) | 13 |  |
| 23 | What is the mode of these numbers (5,4,5,4,3,5,7,9,5) | 5 |  |
| 24 | Work out the mean (5,9,7,7,7) | 7 |  |
| 25 | From the numbers (2,3,5,7,9) John picks one number. What is the probability that it is an odd number? | 4/5 |  |
| 26 | Write the prime numbers between 0 and 10 | 2,3,5,7 |  |
| 27 | Three angles meet at a point. Two of them are 130 and 120. What size is the third angle? | 110 |  |
| 28 | Solve 6x = 12 | X=2 |  |
| 29 | Solve x – 3 = 2 | X=5 |  |
| 30 | Solve 9x – 7 = 11 | X=2 |  |
| 31 | Solve x2 = 49 | X=7 or x =-7 |  |
| 32 | John buys 3 Mars bars costing 71p each. He also buys 5 packets of crisps costing 60p each. How much change will he get from a 10 pound note? | £4.87 |  |
| 33 | A map has a scale of 1:3000. The length of a road on the map is 14cm. Work out the real length of the road. Give your answer in cm and then also in Km. | 42000cm0.42km |  |
| 34 | John is twice as old as Mike. Mike is twice as old as Ann. If their combined age is 63. How old is John? | 36 |  |
| 35 | Write 120 as a product of its prime factors. | 2x2x2x3x5 |  |
| 36 | The probability of passing a test is 0.75. What is the probability of not passing the test? | 0.25 |  |
| 37 | What is the probability of rolling a 0 when you roll a normal die | 0 |  |
| 38 | When I spin a spinner the probability of getting blue is 0.6. Estimate how many times I would get blue if I spun the spinner 70 times. | 42 |  |
| 39 | Find the Area of a Circle with radius 5cm | $$25πcm^{2} or 78.5cm^{2}$$ |  |
| 40 | What is the Circumference of a circle with radius 6cm? | $$12πcm or 37.7cm$$ |  |
| 41 | Estimate 72 x 98 x 0.48 | 3500 |  |
| 42 | Write down 0.7 as a percentage | 70% |  |
| 43 | What is the first even multiple of 7? | 14 |  |
| 44 | What is the first odd prime number? | 3 |  |
| 45 | Calculate 35% of 60 | 21 |  |
| 46 | Increase 1200 by 15% | 1380 |  |
| 47 | Reduce 280 by 20% | 224 |  |
| 48 | Simplify the ratio 40:25 | 8:5 |  |
| 49 | Mike thinks of a number. He triples it and then adds 3. The result is 21. What number did Mike think of? | 6 |  |
| 50 | Solve 3a = 12 | a = 4 |  |
| 51 | Solve 4y - 7 = 37 | y = 11 |  |
| 52 | W = 2p - tFind the value of W when p = 5 and t = -3 | W = 13  |  |
| 53 | Which is greater 30% of 40 or 24% of 50?You must show some workings | They are equal (12) |  |
| 54 | Divide 4800 in the ratio of 4:3:9 | 1200:900:2700 |  |
| 55 | Write 2.3 x 104 as a normal number | 23000 |  |
| 56 | Write 0.0000056 in standard form | $$5.6×10^{-6}$$ |  |
| 57 | Write 4% as a decimal | 0.04 |  |
| 58 | Change 4.1 litres into millilitres | 4100 |  |
| 59 | Write 2534 to the nearest 100 | 2500 |  |
| 60 | A film starts at 14:40. The film lasts 130 minutes. What time will the film end? | 16:50 |  |
| 61 | Simplify n + n + n - n – n | n |  |
| 62 | Simplify 5a – 3b + a + 5b | 6a+2b |  |
| 63 | Simplify 6x3  - x3 | $$5x^{3}$$ |  |
| 64 | Simplify y8 x y-2 | $$y^{6}$$ |  |
| 65 | Factorize 10x + 14 | 2(5x+7) |  |
| 66 | Factorize 12a2b + 10ab2 | 2ab(6a+5b) |  |
| 67 | Expand and simplify (x + 8)(x-4) | $$x^{2}+4x-32$$ |  |
| 68 | What are the prime numbers between 20 and 30? | 23 and 29 |  |
| 69 | What are the factors of 18 | 1,2,3,6,9,18 |  |
| 70 | Write the first 5 multiples of 12 | 12,24,36,48,60 |  |
| 71 | What is the nth term of this sequence 2,9,16,23,30 | 7n-5 |  |
| 72 | 30% of the students in a class are boys. If there are 14 girls how many people in the class in total? | 20 |  |
| 73 | What is 115minutes after 7.30am | 9:25am |  |
| 74 | What is the area of a square with side length 10cm? | $$100cm^{2}$$ |  |
| 75 | A square has an area of 49m2. What is its perimeter? | 28m |  |
| 76 | write 4.62 to 1 decimal place | 4.6 |  |
| 77 | 23.4 x 100 | 23400 |  |
| 78 | 4 bricks weigh a total of 3kg. 3 of the bricks weigh 800g each. How much does the 4th brick weigh? | 600g |  |
| 79 | A = (6,8) B = (10, 12) What is the coordinate of point C the mid-point of AB | (8,10) |  |
| 80 | 3a x 4b | 12ab |  |
| 81 | If x-1=7 Find x2 | x=8$$x^{2}=64$$ |  |
| 82 | What is the Lowest Common Multiple of 12 and 20 | 60 |  |
| 83 | (p5)4 | $$p^{20}$$ |  |
| 84 | (2p2)4 | $$16p^{8}$$ |  |
| 85 | A car is travelling at an average speed of 35km/h for 60 minutes. How far will it travel? | 35km |  |
| 86 | A car travels for 4hrs. It covers a distance of 200miles. What is its average speed? | 50mph |  |
| 87 | 0.92 as a percentage | 92% |  |
| 88 | 0.8 as a fraction in simplest form | 4/5 |  |
| 89 | John has 30 sweets. He gives 17 to Mary. What fraction does he keep? | 13/30 |  |
| 90 | 5 numbers have a mean of 10.Four of the numbers are 6, 7, 12 and 8.What is the 4th number? | 17 |  |
| 91 | Jack buys a car for £5000. He later sells it for £6000. Calculate his percentage profit. | 20% |  |
| 92 | What is half way between -6 and 10 | 2 |  |
| 93 | What is half way between 0.1 and 0.6 | 0.35 |  |
| 94 | A car park costs £0.055p per minute. If Jack parks his car for 2 hours, how much will it cost? | £6.60 |  |
| 95 | Shop A – 6 apples for £2.40Shop B – 8 apples for £3.20Which shop is better value? (Must show workings) | Same price! |  |
| 96 | A bus is 14.4m long. Mike buys a scale model of the bus. The scale of the model is 1:20. How long in cm is the model? | 72cm |  |
| 97 | Cube root of 27 | 3 |  |
| 98 | Nth term = n2. What are the first 4 terms? | 1, 4, 9, 16 |  |
| 99 | Find the volume of a cuboid that is 6cm x 5cm x 12cm | 360$cm^{3}$ |  |
| 100 | Liam runs the 100m in 12sec (to the nearest second). What is the lower bound (Fastest time he could have run it)? | 11.5 Seconds |  |