Stanground Academy

Mathematics Department

Year 9 Foundation

Home Learning Booklet – 27th April

 

Student’s Name:....................................................

 Teacher:.................................................................

*Please Note; it is important to show your working out, if not you will not receive the marks.*

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| **Week 2** | **Lesson 1** |
| Q1)23.5 + 38.24 | Q7) 18 – -31**49** |
| Q2) **61.74**407 $÷$ 11**37** | Q8) 4.5 x 8**36** |
| Q3)What is $\frac{3}{5}$ x $\frac{4}{6}$ in its simplest form?$$\frac{2}{5}$$ | Q9) What is 11% of £310?**34.1** |
| Q4) Round 0.0314 to 1 significant figure**0.03** | Q10) Round 12.3842 to 2 decimal place**12.38** |
| Q5) Using prime decomposition find the prime factors of 42*(HINT: the tree method)* | Q11) What is the perimeter of this shape?9cm14cm7cm |
| Q6) What is the area of this shape?**24**$cm^{2}$**2x3x7**4cm5cm**31.4cm**6cm | Q12) What is the circumference of this circle to 1 decimal place?**53cm**10cm |
| **Week 2** | **Lesson 2** |
| Q1)382 + -217 | Q7) 49.2 – 17.9 |
| Q2) **165**768 $÷$ 24**32** | Q8) **31.3**41 x -9**-369** |
| Q3) With a normal six sided dice, what is the probability of rolling a prime number? Put your answer in its simplest form.**½**  | Q9) What is the nth term of the following sequence?5, 8, 11, 14, 17, 20**3n+2** |
| Q4)What is 32% as a fraction in its simplest form?**8/25** | Q10) What is the Lowest Common Multiple of 12 and 8? |
| Q5) What is the Highest Common Factor of 32 and 48?**16** | Q11)**24**6c + 7 = 31, what does c equal?**c = 4**  |
| Q6) Split £64 into the ratio 5:3**£40 and £24** | Q12) In a class of 24 students 1/3 have brown hair, 50% have blonde, the rest have black hair. **8**1. How many students have brown hair?
2. How many Students have blonde hair?

c) How many students have black hair? |

**4**

**12**

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| **Week 2** | **Lesson 3** |
| Q1)29.3 + -17.2 | Q7) 324 – 94.23 |
| Q2) **12.1**75 $÷$ 6**12.5** | Q8) **229.77**4.2 x 1.3**5.46** |
| Q3)What is $\frac{3}{4}$ + $\frac{2}{9}$?**35/36** | Q9) What is 35% increase of £200?**£270** |
| Q4) Estimate 21 x 198**4000** | Q10) Round 5.8526 to 2 decimal place**5.85** |
| Q5) Write down all of the factors of 100*(HINT: there are 9 factors)***1, 2, 4, 5, 10, 20, 25, 50, 100** | Q11) What is the perimeter of this shape?**82cm**23cm6cm18cm8cm |
| Q6) What is the area of this shape?23cm6cm18cm8cm**244**$cm^{2}$**12.6**$cm^{2}$ | Q12) What is the area of this circle to 1 decimal place? 2cm |
| **Week 2** | **Lesson 4** |
| Q1)-23 + 41 | Q7) -19.4 – 7.2 |
| Q2) **18**31.5 $÷$ 7**4.5** | Q8) **-26.6**12.3 x 17**209.1** |
| Q3) In a normal deck of cards what is the probability of picking a diamond card from the deck? Put your answer in its simplest form. | Q9) What is the term to term rule of this sequence?1, 3, 9, 27, 81, 243, ….**x3** |
| Q4)**1/4**What is 13/20 as a percentage? | Q10) What is the Lowest Common Multiple of 10 and 12? |
| Q5) **65%**What is the Highest Common Factor of 54 and 36? | Q11)**60**3b – 2 = 25, what does b equal?**b = 9** |
| Q6) **18**Split 121 into the ratio 5:6**55 and 66** | Q12) Order the following from smallest to largest 0.47, 1/2, 51%, 0.41, $\frac{9}{20}$ **0.41,** $\frac{9}{20}$ **0.47, 1/2, 51%** |