Stanground Academy

Mathematics Department

Year 9 Foundation

Home Learning Booklet – 8th June

 

ANSWERS

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

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

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

|  |  |
| --- | --- |
|  | **Lesson 1** |
| Q1)97.2 + 28.4**125.6** | Q7) 91.5 – 35.6 |
| Q2) 925 $÷$ 5**185** | Q8) **55.9**8.5 x 12**102** |
| Q3)What is $\frac{2}{5}$ of 80?**32** | Q9) What is 45% of £420?**£189** |
| Q4) Round 936731 to 3 significant figures**937000** | Q10) Round 7.26234 to 2 decimal places**7.26** |
| Q5) Write down all of the factors of 60*(HINT: there are 12 factors)***1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60** | Q11) What is the perimeter of this shape? **38cm**6cm6cm13cm13cm |
| Q6) What is the area of this shape?20cm7cm7cm**140**$cm^{2}$20cm | Q12) What is the circumference of this circle in terms of $π$? **7**$π$ **cm**7cm |
|  | **Lesson 2** |
| Q1)72.54 + 27.46 | Q7) 127.1 – 91.8**35.3** |
| Q2) **100**196 $÷$ 7**28** | Q8) 28 x 7**196** |
| Q3) There are 24 white beads and 36 red beads in a bag. There are no other beads in the bag.Jim takes at random a bead from the bag. Write down the probability that the bead will be white.**24 = 2****60 5** | Q9) What are the next two terms in the sequence:7, 16, 25, 34, …., …… |
| Q4)What is 34% as a fraction?**34/100 or 17/50** | Q10) **43, 52**What is the Lowest Common Multiple of 6 and 8?**24** |
| Q5) What is the Highest Common Factor of 60 and 45?**15** | Q11)6a – 15 = 33, what does a equal?**a = 8** |
| Q6) RatioSplit £140 into the ratio 5:2**£100 and £40** | Q12) In Y9 of 280 students 1/4 have brown hair, 40% have blonde, the rest have black hair. **70**1. How many students have brown hair?
2. How many Students have blonde hair?

**112**c) How many students have black hair? |

**98**

|  |  |
| --- | --- |
|  | **Lesson 3** |
| Q1)91.532 + 21.484**113.016** | Q7) 484 – 251.6**232.4** |
| Q2) 459 $÷$ 9**51** | Q8) 23 x 18**414** |
| Q3)What is bigger $\frac{4}{7}$ or $\frac{7}{12}$**7/12** | Q9) What is 12% of £230?**27.6** |
| Q4) Round 4735 to 1 significant figure**5000** | Q10) Round 9. 6137 to 1 decimal place**9.6** |
| Q5) Write down all of the factors of 45*(HINT: there are 6 factors)* **1, 3, 5, 9, 15, 45** | Q11) What is the perimeter of this shape? 18.4cm21.2cm |
| Q6) What is the area of this shape?8cm9cm**67.5**$cm^{2}$15cm | Q12) What is the area of this circle in terms of $π$? **79.2cm****36**$πcm^{2}$6cm |
|  | **Lesson 4** |
| Q1)87.51 + 46.28**133.79** | Q7) 72 – 85**-13** |
| Q2) 492 $÷$ 12**41** | Q8) 2.5 x 46**115** |
| Q3) There are 80 white beads and 120 red beads in a bag. There are no other beads in the bag.Jim takes at random a bead from the bag. Write down the probability that the bead will be red in its simplest form. | Q9) What are the next two terms in the sequence:1, 3, 6, 10, …., …..**15, 21** |
| Q4)**120/200 = 3/5**What is 7/8 as a decimal?**0.875** | Q10) What is the Lowest Common Multiple of 4 and 10?**20** |
| Q5) What is the Highest Common Factor of 21 and 35?**7** | Q11)20b + 52 = 172, what does b equal?**b = 6** |
| Q6) RatioSplit £135 into the ratio 3:6**45 and 90** | Q12) Order the following from smallest to largest 0.74, 3/4, 78%, 0.8, $\frac{17}{20}$ **0.74, 3/4, 78%, 0.8,** $\frac{17}{20}$ |