

National 4 Mathematics: Homework 14

§ 1 Revision 3

- 1** Round the following to the nearest:
- a) 1 decimal place: i) 23.563 ii) 0.052 iii) 6.63
b) 2 decimal places: i) 23.563 ii) 0.052 iii) 6.639
- 2** What is the value of:
- a) $3 + 5 \times 9$ b) $24 \div 4 - 2$ c) $45 + 9 \times 3 - 24 \div 3$
- 3** In a bag, there are some coloured counters. 6 of them are red, 5 of them are blue, 8 of them are yellow and 9 of them are green. Use the correct notation (i.e. $P(\text{red}) =$) when answering the questions below.
- a) What is the probability of someone picking out a red counter?
b) The red counter is put back into the bag. What is the probability of someone picking out either a green OR a blue counter?
c) What is the probability of someone picking out a purple counter?
d) 3 of the counters are lost from the bag. What is the probability of now picking out a red counter?
e) What is the probability now of picking out a counter that is not yellow?

§ 2 Revision 3

- 1**
- a) Explain, in your own words, what is meant by a Prime Number and list all the prime numbers between 1 and 100.
b) Using a factor tree, write down all the prime factors of 72
- 2**
- a) If a car travels at an average speed of 62mph for 2 and a half hours, how far will the car have travelled?
b) A plane travels 1250km in 4.75 hours. What is its average speed? Give your answer correct to the nearest whole number
c) A man goes for a run. He runs at an average speed of 7km/h. If, at the end of his run, he has run for 8.75km, how long did it take him?
- 3** Solve the following equations showing all your working:
- a) $2s + 3 = 5$ b) $6y - 9 = 21$
c) $2(x+5) = 12$ d) $4(g - 6) = 4$
e) $2x + 6 = x + 6$ f) $8x - 12 = 7x + 18$ g) $7x - 2 = 5x + 6$

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