Name Date





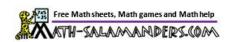
RATIO & PROBABILITY PROBLEMS 2

Write your ratio answers in the form ____ : ____.

Write your probability answers as a fraction.

In a managed forest, three different trees are planted. The trees are beech, holly and maple. For every beech tree planted, there are 2 holly trees planted and 5 maple trees planted.

1) Write down the ratio of trees be	eech : holly : maple trees
2) If 6 beech trees were planted, how many holly trees would be planted?	
3) If 40 maple trees were planted, how many beech trees would be planted?	
4) What is the probability that a tree chosen at random:	
a) would be a beech? b) would be a maple?
c) would be a holly? d) would not be a beech?
Due to a rise in the demand for beech, the ratios of trees planted change to 3 beech : 2 holly : 5 maple.	
5) If 36 beech trees were planted, how many maple trees would be planted?	
6) If 80 trees were planted altogether, how many trees would be:	
a) beech = trees b) holly	v = trees c) maple = trees
7) What is the probability that a tree chosen at random:	
a) would be maple?	b) would not be holly?
c) would not be beech or maple?	d) would be a holly or beech?





RATIO & PROBABILITY PROBLEMS 2 ANSWERS



In a managed forest, three different trees are planted. The trees are beech, holly and maple. For every beech tree planted, there are 2 holly trees planted and 5 maple trees planted.

- 1) Write down the ratio of trees. 1 beech: 2 holly: 5 maple trees
- 2) If 6 beech trees were planted, how many holly trees would be planted? 12
- 3) If 40 maple trees were planted, how many beech trees would be planted? 8
- 4) What is the probability that a tree chosen at random:
- a) would be a beech? $\frac{1}{8}$

- b) would be a maple? ⁵/₈
- c) would be a holly? $\frac{2}{8}$ or $\frac{1}{4}$
- d) would not be a beech? $\frac{7}{8}$

Due to a rise in the demand for beech, the ratios of trees planted changes to 3 beech : 2 holly : 5 maple.

- 5) If 36 beech trees were planted, how many maple trees would be planted? 60
- 6) If 80 trees were planted altogether, how many trees would be:
- a) beech = 24 trees
- b) holly = 16 trees
- c) maple = 40 trees
- 7) What is the probability that a tree chosen at random:
- a) would be maple? $\frac{5}{10}$ or $\frac{1}{2}$
- b) would not be holly? $\frac{8}{10}$ or $\frac{4}{5}$
- c) would not be beech? $\frac{7}{10}$
- d) would be a holly or beech? $\frac{5}{10}$ or $\frac{1}{2}$