

## RATIO \& PROBABILITY PROBLEMS 2

Write your ratio answers in the form $\qquad$ : $\qquad$ .

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 $\mathbf{2}$ holly trees planted and 5 maple trees planted.

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

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

Due to a rise in the demand for beech, the ratios of trees planted changes to 3 beech : $\mathbf{2}$ 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? $5 / 10$ or $1 / 2$
b) would not be holly? ${ }^{8} / 10$ or $4 / 5$
c) would not be beech? ${ }^{7 / 10}$
d) would be a holly or beech? 5/10 or $1 / 2$

