Probability as a fraction or decimal fraction Maths worksheets from mathsblog.co.uk



The probability of something happening can be written as a fraction or a decimal fraction.

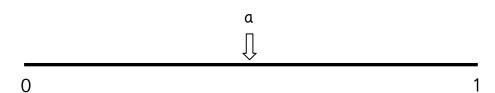
For example: the probability of getting a tail when tossing a coin is $\frac{1}{2}$, but this can also be written as 0.5

Write the probability of the following events happening, both as a fraction and as a decimal fraction.

Round decimals to two decimal places

a. Rolling a 1 to 6 die and getting an even number.	
b. Rolling a 1 to 6 die and not getting a 6.	
c. Rolling a 1 to 6 die and getting a number larger than 2.	
d. Rolling a 1 to 6 die and getting a number between 1 and 6.	
e. Rolling a 1 to 6 die and getting a 3 or 4.	
f. Picking any spade out of a pack of 52 cards.	
g. Picking the ace of spades out of a pack of 52 cards.	
h. Picking a card out of a pack of card that is not a heart.	

Put each of these events approximately where they would appear on a 0 to 1 probability line to show the order of likelihood. Use the letters of the questions. I have done the first question (a) for you.



Probability as a fraction or decimal fraction

Maths worksheets from mathsblog.co.uk

Answers

All decimals rounded to two decimal places.

- a. 3/6 or $\frac{1}{2}$ and 0.5
- b. 5/6 and 0.83
- c. 4/6 or 2/3 and 0.67
- d.1 and 1
- e. 2/6 or 1/3 and 0.33
- f. 13/52 or 1/4 and 0.25
- g. 1/52 or 0.02
- h. 39/52 or 34 and 0.75

Approximately, but in this order:

