

## **6 – DMP – PRE TEST (3 QUESTIONS). LEVEL:**

<b>FIRST NAME, LAST NAME:</b>	<b>CLASS:</b>
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- 10** A spinner has 12 equal-sized sections. The sections are labelled 1 through 12.

What is the probability that Frieda will spin a multiple of 3 on her first spin?

Explain how you know.

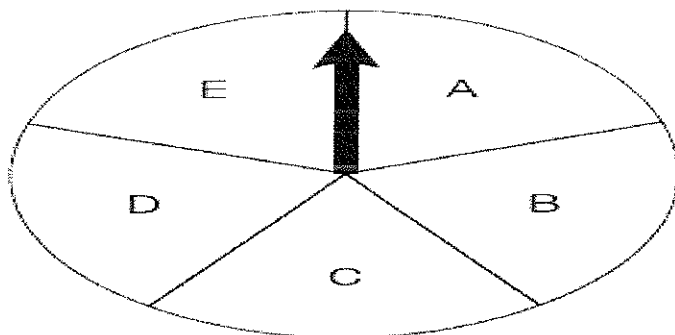
The probability is \_\_\_\_\_.

- 33** Jane has a package of 40 cards: 30 of the cards are red and 10 of the cards are black. If Jane randomly picks 8 cards, how many cards should she expect to be red?

A 2  
B 4  
C 6  
D 8

Justify your answer:

- 11** Sara draws the spinner shown below. It is divided into 5 equal sections.



If Sara spins the arrow 50 times, how many times should she expect the arrow to land on section E?

A 5  
B 10  
C 25  
D 45

## 6 – DMP – BENCHMARK TEST #1 (2 QUESTIONS). LEVEL:

FIRST NAME, LAST NAME:

CLASS:

27 Farzad puts the following 10 cards into a bag.

A S S E S S M E N T

Farzad randomly selects one card, records the result and puts the card back into the bag. If he does this 500 times, how many times is it likely that he will select a card with a vowel (A, E, I, O, U)?

Justify your answer.

Lucas has 5 t-shirts in a drawer: 1 red, 2 yellow, 1 pink and 1 blue. He selects one t-shirt without looking. What is the probability that Lucas selects a t-shirt that is **not** pink or blue?

a)  $\frac{1}{5}$

b)  $\frac{2}{5}$

c)  $\frac{3}{5}$

d)  $\frac{4}{5}$

Explain your answer:

## 6 – DMP – BENCHMARK TEST #2 (1 QUESTION). LEVEL: \_\_\_\_\_

FIRST NAME, LAST NAME: \_\_\_\_\_

CLASS: \_\_\_\_\_

- 9 Dakota and Bryan count their coloured paper clips and record the results in the table below.

Colour	Dakota	Bryan
Red	14	18
Yellow	7	9
Blue	6	5
White	17	20

They put all of the paper clips in a box. Dakota chooses one paper clip from the box without looking.

Determine the probability that Dakota chooses a red paper clip.

Show your work.

**6 – DMP – BENCHMARK TEST #3 (2 QUESTIONS). LEVEL:**

FIRST NAME, LAST NAME:

CLASS:

- 8** Keenan places 3 green marbles, 4 yellow marbles and 1 blue marble in a bag.

Keenan then adds 1 green marble and 1 yellow marble to the bag.

Does the probability that Keenan will randomly choose a yellow marble increase, decrease or stay the same?

Circle one:      Increases      Decreases      Stays the same

Justify your answer.

- 13** There are 2 blue, 5 green, 6 red and 7 purple marbles in a bag. Erin picks one marble from the bag without looking.

What is the probability that she will pick a marble that is purple?

- a 7%
- b 20%
- c 35%
- d 54%

**Show your work to prove your answer:**

## **6 – DMP – POST TEST (4 QUESTIONS). LEVEL:**

<b>FIRST NAME, LAST NAME:</b>	<b>CLASS:</b>
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- 7** Lori has a bag of 24 gumballs. She takes 8 gumballs from the bag without looking. The colours of the 8 gumballs Lori takes from the bag are 4 red, 3 blue and 1 yellow.

Using the colours of the gumballs Lori takes from the bag, predict how many gumballs of each colour were in the bag to start.

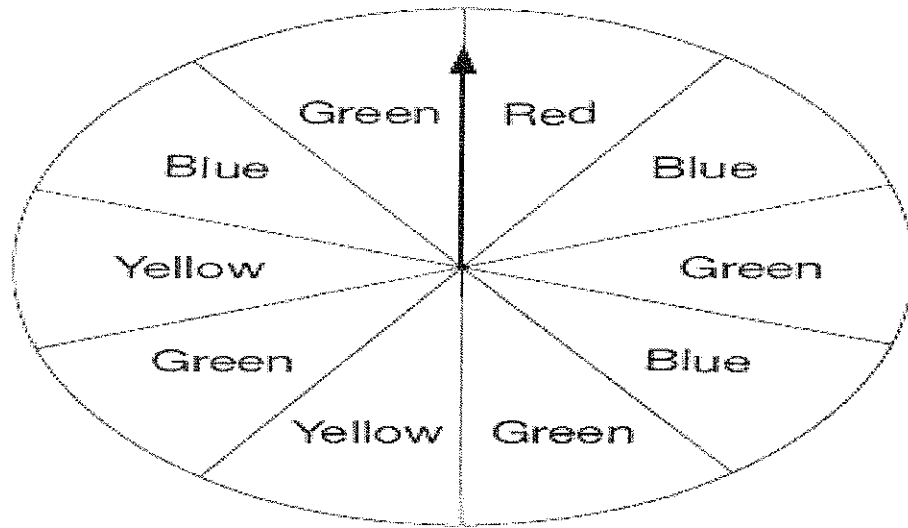
Explain your thinking.

- 12** The faces on a fair number cube are labelled 1, 2, 3, 4, 5 and 6. Steven rolls the number cube 48 times.

How many times should Steven expect to roll a 3?

- a 3
- b 8
- c 16
- d 24

**35** The spinner below has 10 equal sections.

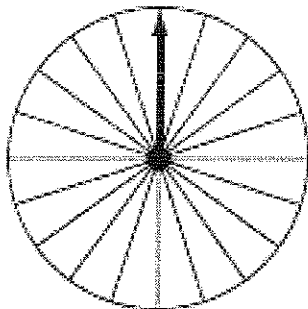


On which colour will the arrow land with a probability of 0.2?

- a red
- b blue
- c green
- d yellow



- 4 Henry designs the spinner below and labels the sections with the names of colours.



He wants 0.15 to be the probability of the arrow landing on "blue" in one spin.

How many sections should he label "blue"?

- a 2
- b 3
- c 15
- d 17

Show your work and prove your answer in the space below: