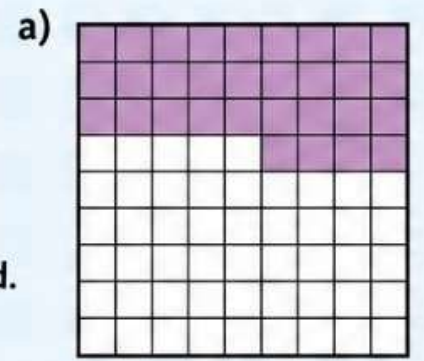


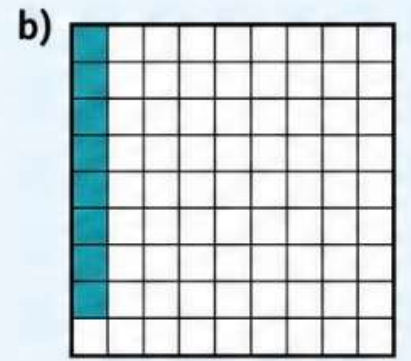
1. Write:

- a fraction with hundredths
- a decimal
- a percent

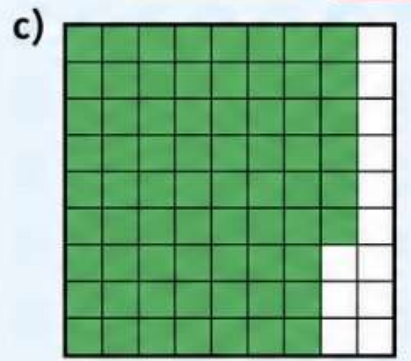
to name the shaded part of each grid.



$\frac{34}{100}$ 0.34 34%



$\frac{8}{100}$ 0.08 8%



$\frac{76}{100}$ 0.76 76%

2. Write as a percent. Then write as a decimal.

a) 64 out of 100
 64% 0.64

b) $\frac{50}{100}$
 50% 0.50

c) 1 out of 100
 1% 0.01

d) $\frac{17}{100}$
 17% 0.17

3. Write each percent as a fraction with hundredths. Then write as a decimal.

a) 13% $\frac{13}{100}$ 0.13

b) 5% $\frac{5}{100}$ 0.05

c) 79% $\frac{79}{100}$ 0.79

d) 64% $\frac{64}{100}$ 0.64

4. Join each box to the correct amount.

$\frac{50}{100} \times \frac{20}{1}$

50% of 20

$\frac{10}{100} \times \frac{180}{1}$

10% of 180

$\frac{100}{100} \times 14$

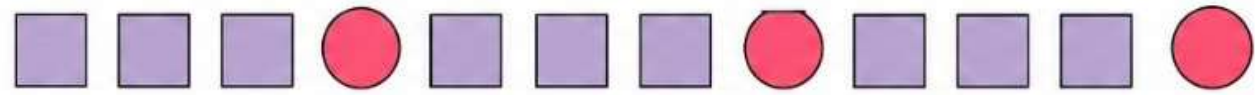
100% of 14





1. Here is a repeating pattern of shapes.

1 in every 4 shapes is a circle.



Use fractions to complete these sentences.

- $\frac{3}{4}$ of the shapes are squares.
- $\frac{1}{4}$ of the shapes are circles.

2. Draw a repeating pattern to fit each description.

a) 1 in every 3 shapes is a square.



b) 1 in every 3 shapes is a triangle.



3. Draw a repeating pattern to fit each description.

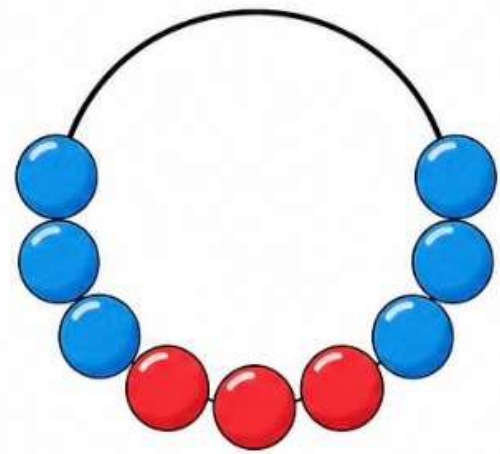
a) $\frac{1}{3}$ of the shapes are squares.



b) $\frac{2}{3}$ of the shapes are triangles.



4. Look at the beads on the necklace.



a) What fraction of the beads are red?

$$\frac{3}{9}$$

b) What fraction of the beads are blue?

$$\frac{6}{9}$$

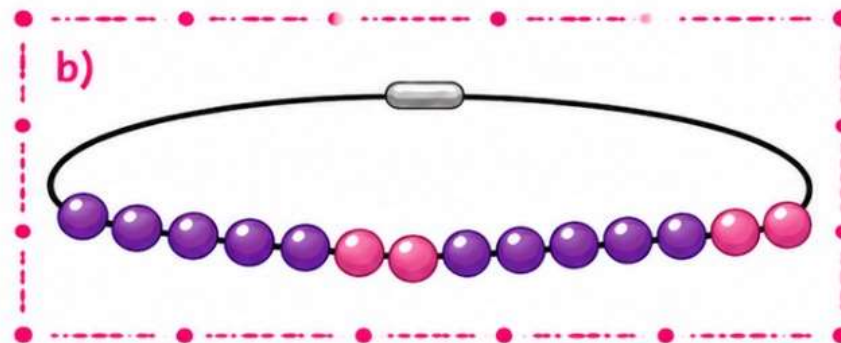
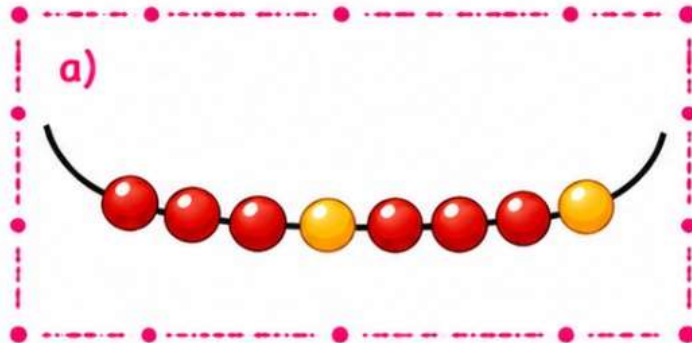
c) What is the ratio of red beads to blue beads?

$$\frac{3 \text{ red}}{6 \text{ blue}}$$

5. You are a jewellery designer.

Draw designs of jewellery that match these descriptions:

- a) a necklace where $\frac{1}{4}$ of the beads are yellow.
- b) a bracelet where for every 5 purple beads there are 2 pink beads.
- c) a pair of earrings where for every 2 green beads there are 3 blue beads.



6. Here is a recipe for vegetable soup.

The recipe is enough for 4 people. To make enough for 8 people, you need to double the amount of each ingredient, for example, you would need $300 \text{ g} \times 2 = 600 \text{ g}$ of potatoes.

You just need to double every ingredient (because 8 people is double 4)

Work out the quantities of these ingredients:

	For 4 people	$\times 2$	For 8 people
butter beans	650 g		1300 g
stock	350 ml		700 ml
mushrooms	250 g		500 g
tomatoes	400 g		800 g
pumpkin	850 g		1700 g

Vegetable soup
(serves 4 people)

- 200 grams potatoes
- 1 large onion
- 650 grams butter beans
- 350 ml stock
- 2 carrots
- 250 grams mushrooms
- 400 grams chopped tomatoes
- 850 grams pumpkin



45

1.

What is the likelihood of the following events happening?

Use the words 'likely' and 'unlikely'.

a When you roll a dice you will get a number less than 6.

likely

b Someone in your class will lose a shoe this term.

unlikely

c It will rain today.

likely

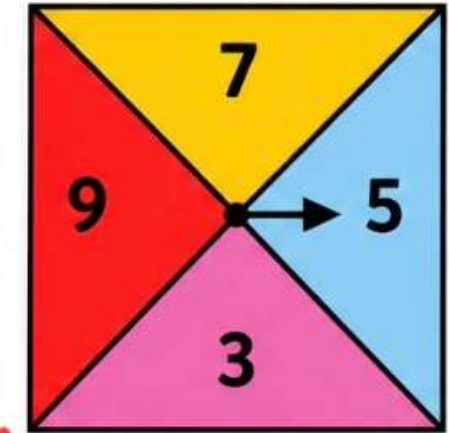
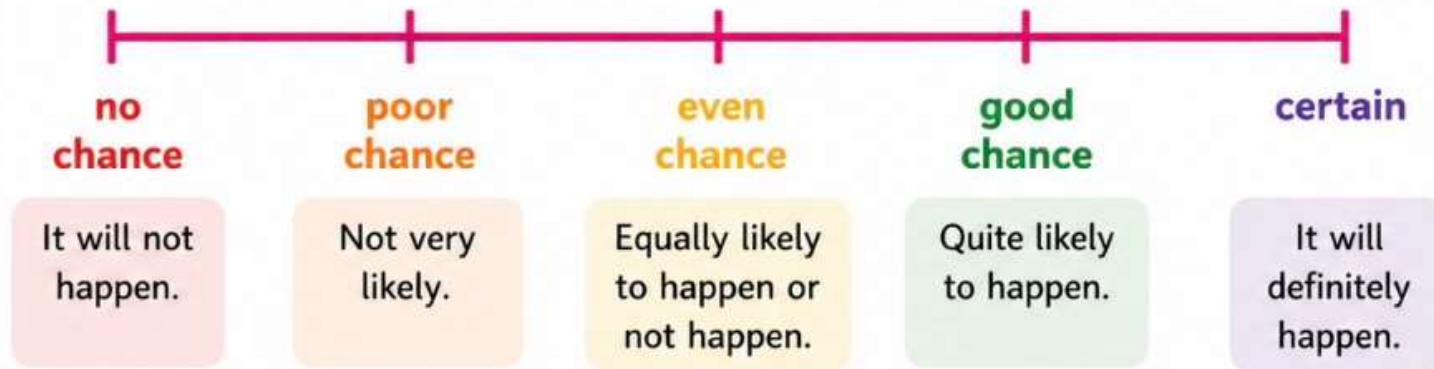
★ Make up three statements of your own and say whether they are likely or unlikely.

1 It is likely that I will eat a snack today. (60%)

2 It is unlikely that I will find money on the ground. (5%)

3 It is likely that I will talk to my friend today. (60%)

2. Look at this probability line.
Use it to help you answer the following questions.



3. Vincent is using the spinner shown above.
What are the chances that:

- a** he scores an odd number? 100%
1, 3, 5, 7, 9... All numbers (3, 5, 7, 9) are odd → 100% chance
 Probability line: no chance, poor chance, even chance, good chance, **certain** ✓
- b** he scores an even number? 0%
0, 2, 4, 6, 8... There are no even numbers → 0% chance
 Probability line: **no chance** ✓, poor chance, even chance, good chance, certain
- c** he scores less than 5? 25%
Poor chance (unlikely) Only 3 is less than 5 → 1 out of 4
 Probability line: no chance, **poor chance** ✓, even chance, good chance, certain
- d** he scores a number greater than 6? 50%
even chance, Numbers greater than 6: 7 and 9 → 2 out of 4
 Probability line: no chance, poor chance, **even chance** ✓, good chance, certain

4.

Write a sentence using each word.



likely

It is likely that I will play today.

unlikely

It is unlikely that I will see a lion.