1. Victoria rolls an ordinary dice.

$$0 = \frac{0}{6} \qquad \frac{1}{6} \qquad \frac{2}{6} \qquad \frac{3}{6} = \frac{1}{2} \qquad \frac{4}{6} \qquad \frac{5}{6} \qquad \frac{6}{6} = 1$$
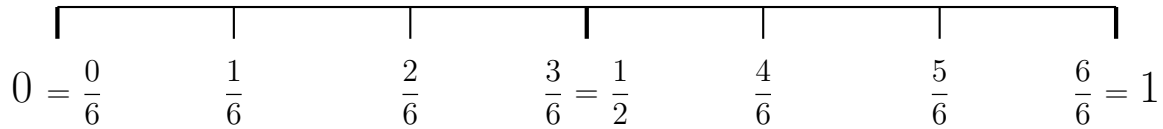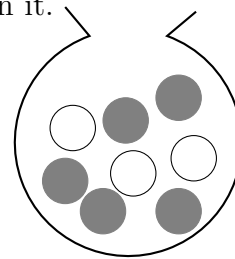
On the probability scale, mark with a cross ($\times$) the probability that Victoria rolls a 5.

2. Here is an incomplete probability line.

$$0 = \frac{0}{} \qquad \frac{1}{} \qquad \frac{2}{} \qquad \frac{}{} \qquad \frac{}{} = \frac{1}{2} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} = 1$$
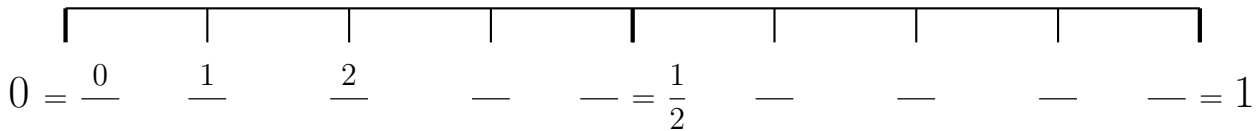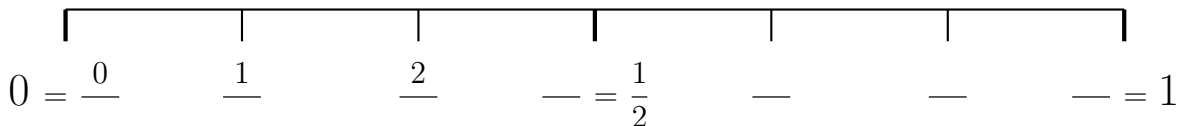
(a) Complete the fraction labels.

Here is a bag with some grey and white marbles in it.

(b) Hamza, shakes the bag and takes a marble, at random, from the bag.
On the probability line, mark with a cross ($\times$) the probability that
Hamza takes a white marble.

3. Here is an incomplete probability line.

$$0 = \frac{0}{} \qquad \frac{1}{} \qquad \frac{2}{} \qquad \frac{}{} = \frac{1}{2} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} = 1$$

(a) Complete the fraction labels.

Aanya puts these tiles in a bag.

Aanya shakes the bag and takes a tile, at random, from the bag.

(b) On the probability scale, mark with a cross ($\times$) the probability that
Aanya takes a tile with a square on it.

4. Here is an incomplete probability line.

$$0 = \frac{0}{} \qquad \frac{1}{} \qquad \frac{2}{} \qquad \frac{}{} = \frac{1}{2} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} = 1$$

(a) Complete the fraction labels.

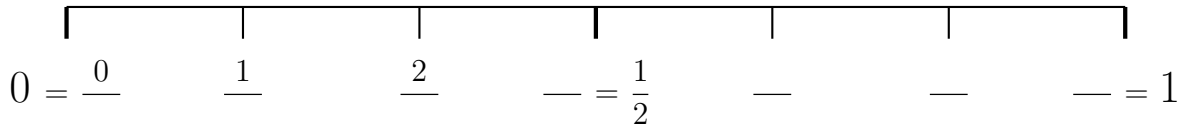Maskini puts these tiles in a bag.

▲   □   ■   ▲   ▲   ■

Maskini shakes the bag and takes a tile, at random, from the bag.

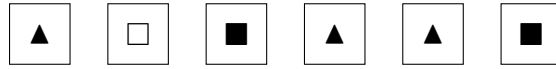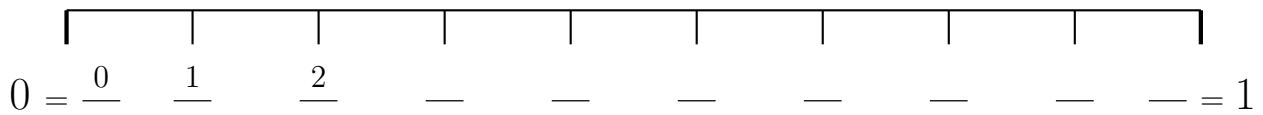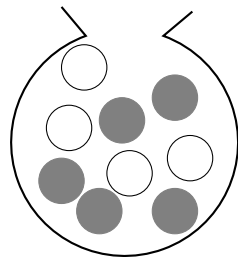(b) On the probability scale, mark with a cross (×) the probability that Maskini takes a tile with a triangle on it.

5. Here is an incomplete probability line.

$$0 = \frac{0}{} \qquad \frac{1}{} \qquad \frac{2}{} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} \qquad \frac{}{} = 1$$

(a) Complete the fraction labels.

Here is a bag with some grey and white marbles in it.

(b) Tara, shakes the bag and takes a marble, at random, from the bag. On the probability line, mark with a cross (×) the probability that Tara takes a grey marble.

Answers (1) ⊢—×——┬——┬——┬——┬——┤
$$\frac{0}{6} \quad \frac{1}{6} \quad \frac{2}{6} \quad \frac{3}{6} \quad \frac{4}{6} \quad \frac{5}{6} \quad \frac{6}{6}$$

(2) ⊢—┬——┬——×——┬——┬——┬——┬——┤
$$\frac{0}{8} \quad \frac{1}{8} \quad \frac{2}{8} \quad \frac{3}{8} \quad \frac{4}{8} \quad \frac{5}{8} \quad \frac{6}{8} \quad \frac{7}{8} \quad \frac{8}{8}$$

(3) ⊢—┬——┬——┬——×——┬——┤
$$\frac{0}{6} \quad \frac{1}{6} \quad \frac{2}{6} \quad \frac{3}{6} \quad \frac{4}{6} \quad \frac{5}{6} \quad \frac{6}{6}$$

(4) ⊢—┬——┬——×——┬——┬——┤
$$\frac{0}{6} \quad \frac{1}{6} \quad \frac{2}{6} \quad \frac{3}{6} \quad \frac{4}{6} \quad \frac{5}{6} \quad \frac{6}{6}$$

(5) ⊢—┬——┬——┬——┬——×——┬——┬——┬——┤
$$\frac{0}{9} \quad \frac{1}{9} \quad \frac{2}{9} \quad \frac{3}{9} \quad \frac{4}{9} \quad \frac{5}{9} \quad \frac{6}{9} \quad \frac{7}{9} \quad \frac{8}{9} \quad \frac{9}{9}$$

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