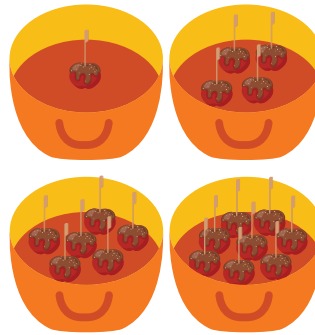# Spark Math
Primary 5
Halloween Worksheet

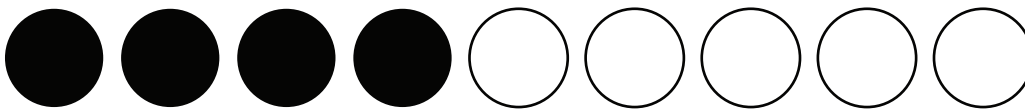**1** Find the value of
$$\frac{11}{\frac{1}{8} + \frac{1}{15} + \frac{1}{24} + \frac{1}{35}}.$$

2 Four baskets contain 1, 4, 6 and 9 candy apples respectively. How many candy apples should be moved between the baskets to have the same number of candy apples in each basket?

3 Nine tokens are black on one side and white on the other. Initially, four tokens have the black side upwards. In each turn you have to flip three tokens. What is the least number of turns you need to have all tokens showing the same colour?

4 Benny threw a Halloween party at a restaurant.
In how many ways can he pay the bill of $69 exactly using only $5 notes and $2 notes?

5 Find y.

$$\frac{1}{2} \left\{ \frac{1}{2} \left(\frac{1}{4} y - \frac{3}{2} - 3 \right) - 3 \right\} = 1$$

6 Find the next fraction in the sequence below.

$$\frac{1}{3} , \frac{1}{2} , \frac{5}{9} , \frac{7}{12} , \frac{3}{5} , \quad ? \quad , \cdots$$

A. $\frac{5}{7}$ 　　　 B. $\frac{5}{18}$ 　　　 C. $\frac{11}{18}$ 　　　 D. $\frac{17}{18}$ 　　　 E. None of the above

7 Let N = 2^{2021} + 2021^2. Find the remainder when N is divided by 7.

8 If each A represents the same number and A × A × A = 27, what is the value of A + A + A?

A. 3 　　　 B. 6 　　　 C. 9 　　　 D. 12 　　　 E. 27