

# Lesson Printables

Be a rockstar and only print what you need!



**Lesson Information Sheet: 2**

**Sunlight Zone**  
Activity: 3

**Twilight Zone**  
Activity: 4

**Midnight Zone**  
Activity: 5

**Extras**  
Fraction Mat: 6  
Optional Recording Log: 7  
(Could be used when looking for fractions around your local area)  
Answers: 8-9

# Let's identify fractions

## Why learn this?

Fractions are parts of a whole. By exploring fractions around them, students develop real-life contexts for these types of numbers rather than just seeing abstract symbols on a page. When children notice fractions in everyday situations, they develop a deeper conceptual understanding of what fractions actually represent.

## What are fractions?

### What are fractions?

- A fraction represents a part of a whole. For example, a whole pizza that has been cut into 8 equal parts.
  - The numerator is the top number and represents the number of parts or pieces being focused on.
  - The denominator is the bottom number and represents the number of pieces or parts in the whole.
- \*Note, fractions can be mixed numbers, which are whole numbers and fractions. They will be discussed in future year groups.*

### How can I find fractions in pictures?

- Identify the total amount of parts in the whole.
  - In this example, there are 6 dots in total.
  - This amount will be the denominator of all fractions associated with the picture as it represents the total amount of dots.
- Choose something to focus on.
  - In the dot picture, we could focus on the orange dots.
  - There are 2 orange dots, this means that the numerator will be 2.
- Record the fraction.
  - $\frac{2}{6}$  of the dots are orange.
- Each picture shows several fractions.
  - $\frac{1}{6}$  of the dots are green,  $\frac{2}{6}$  of the dots are blue,  $\frac{6}{6}$  of the dots are round, etc.



### How can my students find fractions at home?

- Gather a collection of items.
  - This could be a pile of socks, a handful of lego blocks, a group of different beans, balls, colored pencils, fruit etc.
- Use the above steps to find fractions for each group or collection of items.
  - 3 of the 5 socks are white
    - ◆ The fraction is  $\frac{3}{5}$ .
  - 1 of the 5 socks has a hole in it, so  $\frac{1}{5}$  of the socks have holes.

## Let's warm up!

### Starter Activity - Model Multiplication

How many different ways can students solve  $4 \times 5$ ?

#### To support, students could:

- Be asked guiding questions:
  - What does  $4 \times 5$  mean? 4 groups of 5 or 5 groups of 4.
  - Could you write a repeated addition number sentence to replace the multiplication number sentence?
  - What do you remember about multiplying by 4 and by 5?

#### To challenge, students could:

- Find at least 5 different ways to solve the problem. Can students make a connection between multiplying by 10 and multiplying by 5? This is the last strategy shown on the solutions slide.

## Let's do this!

**Main Activity** - Students are shown 4 different pictures. What fractions can students find in each of the pictures? Encourage students to identify at least 2 fractions for each picture.

#### To support, students could:

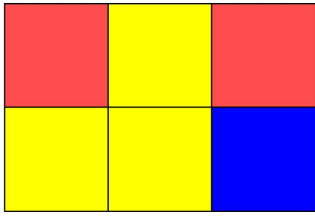
- Use a fraction mat for guidance. See printables.

#### To challenge, students could:

- Explore trying to draw their fractions as a visual. See slide 12 for one possible example. Students should try to make equal parts in their visuals. For example, if the whole is a group of 4 pets, the visual should have 4 equal parts (these can be estimated, so do not need to be perfect).
- Go exploring! What fractions can students find?
  - Look for fractions in a pile of clothes. What fraction of the clothes are shorts? Shirts? Clean?
  - Flip over a handful of playing cards. What fraction are hearts? Spades? Odd numbers?
  - Look at a collection of mugs/cups. What fraction are blue? Chipped? Have a pattern or words?
  - Look at a collection of shoes. What fractions are sneakers? Have laces? Are left shoes?

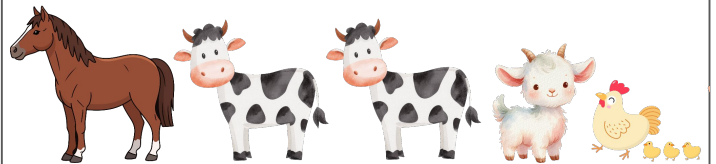
# Sunlight Zone

1. What fractions can you find in the pictures?  
→ Identify at least 2 fractions per picture.



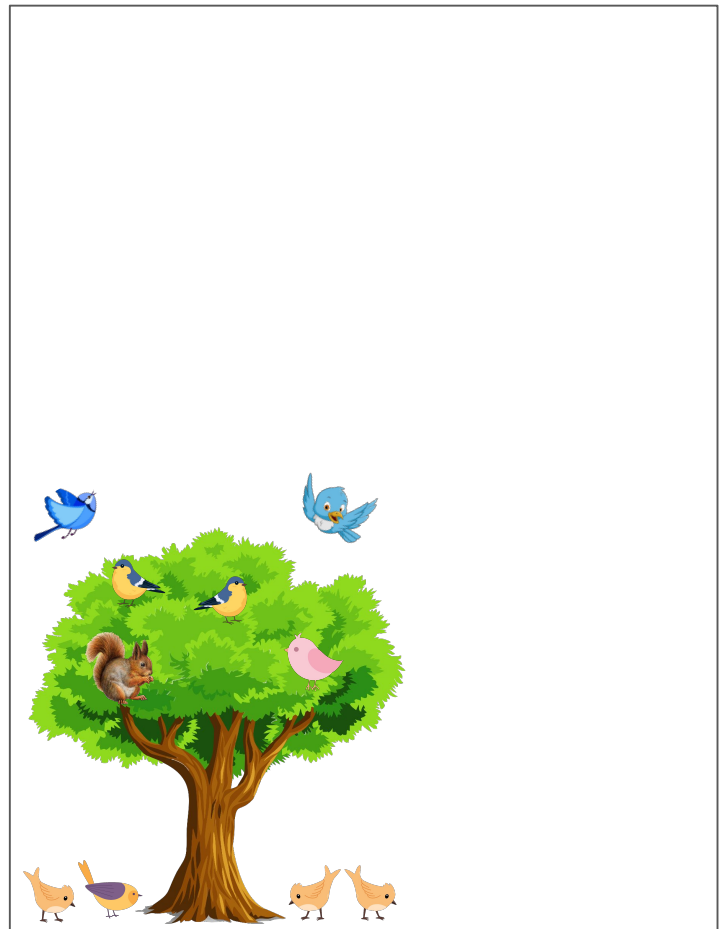
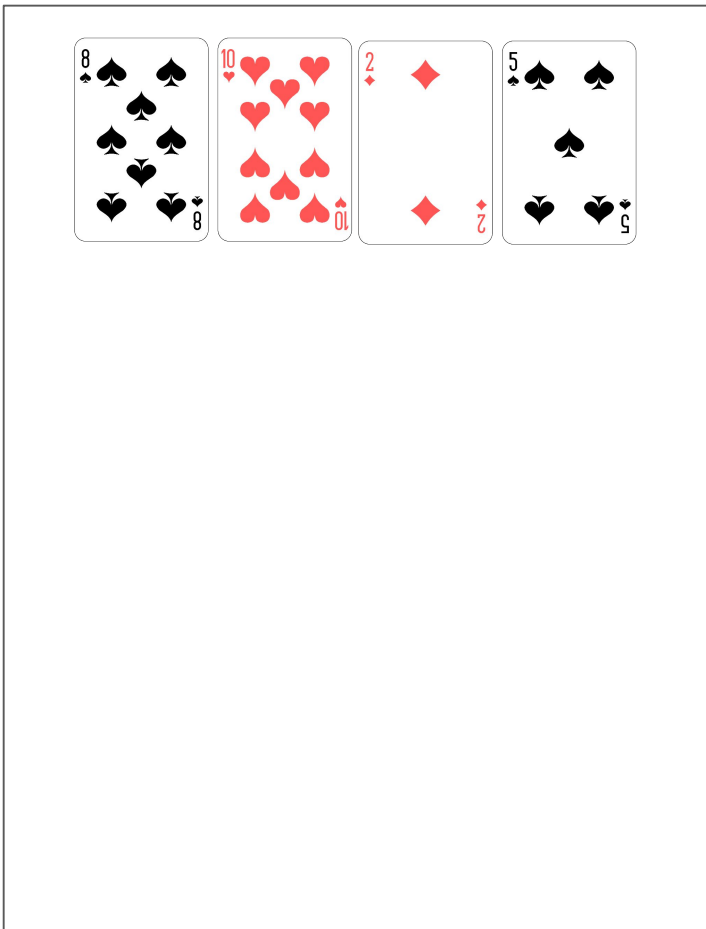
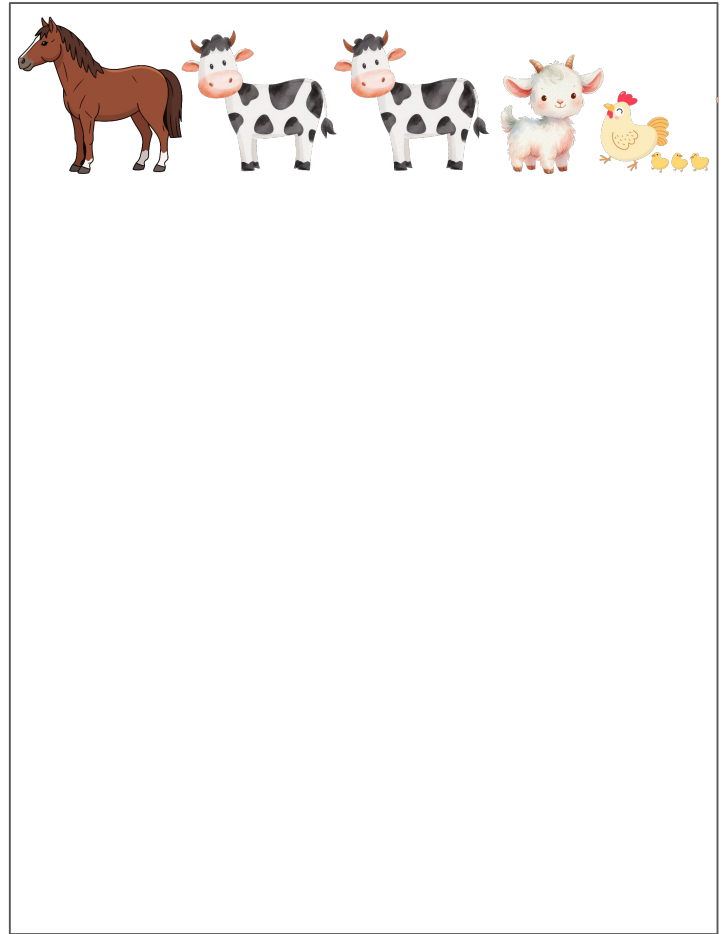
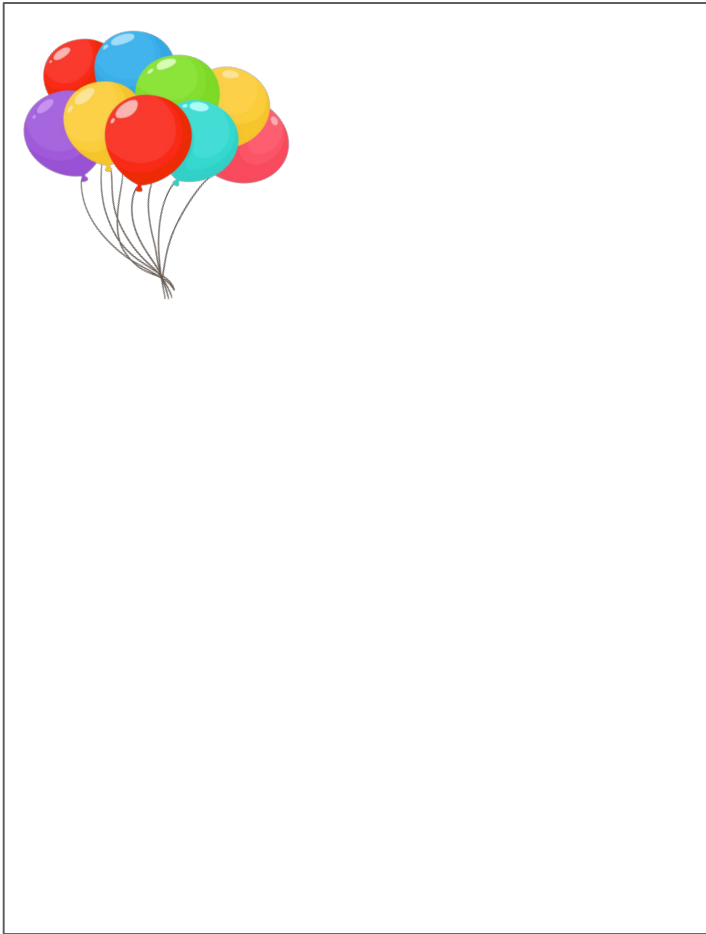
# Twilight Zone

1. What fractions can you find in the pictures?  
→ Identify at least 2 fractions per picture.



# Midnight Zone

1. What fractions can you find in the pictures?  
→ Identify at least 3 fractions per picture.

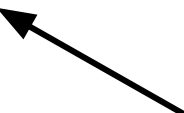


# Fraction Mat

I'm investigating:

**Numerator**

(Number of parts or pieces you are focusing on)

A large, empty rectangular box with a pink border, intended for writing the numerator of a fraction.A large, empty rectangular box with a teal border, intended for writing the denominator of a fraction.

**Denominator**

(Number of parts or pieces in the whole)

# Optional Recording Log

I'm investigating:

Fractions I've found:

I'm investigating:

Fractions I've found:

I'm investigating:

Fractions I've found:

I'm investigating:

Fractions I've found:

# Answers

Below are possible solutions, not all solutions.

Sunlight Answers	
Squares	$\frac{3}{6}$ are yellow $\frac{2}{6}$ are red $\frac{1}{6}$ is blue $\frac{6}{6}$ are squares
Pets	$\frac{2}{4}$ are dogs $\frac{1}{4}$ is a hamster $\frac{1}{4}$ is a cat
Fruit	$\frac{2}{5}$ are apples/oranges $\frac{1}{5}$ is a lemon $\frac{5}{5}$ are fruit
Insects	$\frac{2}{7}$ are bees $\frac{3}{7}$ are butterflies $\frac{1}{7}$ is a dragonfly $\frac{1}{3}$ of the butterflies are yellow $\frac{7}{7}$ are insects

Twilight Answers	
Insects	$\frac{2}{7}$ are bees $\frac{3}{7}$ are butterflies $\frac{1}{7}$ is a dragonfly $\frac{1}{3}$ of the butterflies are yellow $\frac{7}{7}$ are insects
Pets	$\frac{2}{4}$ are dogs $\frac{1}{4}$ is a hamster $\frac{1}{4}$ is a cat
Balloons	$\frac{3}{9}$ are red $\frac{2}{9}$ are yellow $\frac{1}{9}$ is purple $\frac{9}{9}$ are balloons
Farm Animals	$\frac{8}{8}$ are farm animals $\frac{1}{8}$ is a horse $\frac{4}{8}$ have 4 legs $\frac{4}{8}$ are chickens $\frac{1}{8}$ is a goat

# Answers

Below are possible solutions, not all solutions.

Midnight Answers	
Balloons	$3/9$ are red $2/9$ are yellow $1/9$ is purple $9/9$ are balloons
Farm Animals	$8/8$ are farm animals $1/8$ is a horse $4/8$ have 4 legs $4/8$ are chickens $1/8$ is a goat
Playing Cards	$1/2$ or $2/4$ are black $1/4$ are hearts $3/4$ are even numbers $4/4$ cards
Tree Animals	$2/10$ of the animals are flying $8/10$ are not flying $4/10$ are on the ground $1/10$ is a squirrel $4/10$ are on in the tree