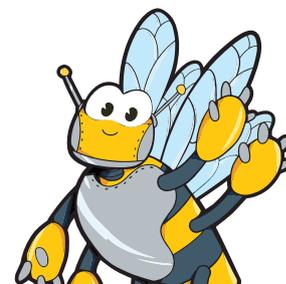




Module Review — Fractions, Decimals, Predictions, and Data

Mr. Bee Note:

Some answers may vary slightly depending on student explanations. Focus on **conceptual understanding**, not exact wording.



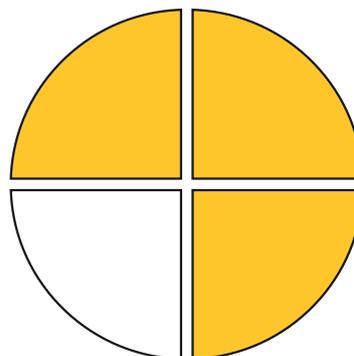
1

Fractions as Parts of a Whole

1

A circle is divided into **4 equal parts**.
3 parts are shaded.

Write the fraction: **3/4**



Explain what the fraction means in one sentence.

Acceptable explanations include:

- “Three out of four equal parts are shaded.”
- “The whole is divided into four parts, and three are used.”
- A correct drawing with explanation.

Mr. Bee Note: The fraction $3/4$ means three of the four equal parts of the whole are shaded.

2 Fractions and Decimals

1 Match each fraction to its decimal.

$1/2$ 0.5

$1/4$ 0.25

$3/4$ 0.75

Explanation: Fractions and decimals can represent the same amount of a whole using different number forms.

3 Making Predictions

1 Full power = 20 steps
Predict how far the robot will go using:

$1/2$ power: 10 steps

$1/4$ power: 5 steps

1. Which prediction is larger? 1/2 power

2. Why?

Acceptable explanations include:

- “One half is more than one quarter.”
- “Using more power makes the robot go farther.”
- “10 is greater than 5.”

Mr. Bee Note: Half power is larger because it uses more of the total distance than one quarter power.

4

Testing Predictions

1

A robot was tested at **0.5 power**.

Prediction	Actual result
10 steps	10.2 steps

1. Are the prediction and result exactly the same?

2. Are they close?

Explanation: The result is very close to the prediction, even though it is not exact.

5

Understanding Variation

1

The same test was run three times:

A. 10.2

B. 10.0

C. 10.1

1. Circle the **largest** result.
2. Underline the **smallest** result.

2

Finish the sentence:

Variation means that _____

results are not exactly the same

each time.

Acceptable alternatives:

- “results can change a little”
- “numbers can be slightly different”
- “results are close but not equal”

6

Comparing Numbers

1

Order from **smallest to largest**:

(Decimals: 0.75, 0.25, 0.5)

2

Order from **smallest to largest**:

(Fractions: 1/2, 1/4, 3/4)

Explanation: Fractions and decimals can be compared by thinking about how much of the whole they represent.

7

Explain Your Thinking

1

Why is $\frac{3}{4}$ larger than $\frac{1}{2}$?

Use words, pictures, or both.

Acceptable explanations include:

- “Three quarters is more than one half.”
- “ $\frac{3}{4}$ has more equal parts of the whole.”
- “When you divide a whole into four parts, taking three is more than taking one out of two.”

Correct drawings showing more area shaded for $\frac{3}{4}$ than $\frac{1}{2}$.

Mr. Bee: $\frac{3}{4}$ is larger than $\frac{1}{2}$ because it shows more equal parts of the same whole.

