



# Gravity

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Multiple Choice

Circle the best answer for each question.

1. An astronaut weighs 120 pounds on Earth.  
About what would she weigh on the Moon?

- A) About 20 pounds
- B) About 60 pounds
- C) About 100 pounds
- D) About 720 pounds

2. A rover that weighs 100 pounds on Earth  
would weigh about how much on Mars?

- A) About 10 pounds
- B) About 40 pounds
- C) About 100 pounds
- D) About 250 pounds

3. A 60-pound dog on Earth would weigh about  
how much on the Moon?

- A) About 5 pounds
- B) About 10 pounds
- C) About 30 pounds
- D) About 360 pounds

4. Which place has the strongest gravity for a  
Grade 5 student to feel?

- A) Earth's surface
- B) Mars surface
- C) Moon's surface
- D) Open space far from any planet

## Part B: Fill in the Blank

Write the correct answer on each line.

1. If you weigh 90 pounds on Earth, you would weigh about \_\_\_\_\_ pounds on the Moon.
2. A 50-pound dog on Earth would weigh about \_\_\_\_\_ pounds on Mars.
3. A spacecraft part that weighs 600 pounds on Earth weighs about \_\_\_\_\_ pounds on the Moon.
4. If a robot weighs 250 pounds on Earth, it weighs about \_\_\_\_\_ pounds on Mars.
5. The mass of a 30-pound rock stays the same on every world, but on the Moon its weight is about \_\_\_\_\_ pounds.

**Part A: Multiple Choice**

Circle the best answer for each question.

1. An astronaut weighs 120 pounds on Earth. About what would she weigh on the Moon?

- A) About 20 pounds
- B) About 60 pounds
- C) About 100 pounds
- D) About 720 pounds

2. A rover that weighs 100 pounds on Earth would weigh about how much on Mars?

- A) About 10 pounds
- B) About 40 pounds
- C) About 100 pounds
- D) About 250 pounds

3. A 60-pound dog on Earth would weigh about how much on the Moon?

- A) About 5 pounds
- B) About 10 pounds
- C) About 30 pounds
- D) About 360 pounds

4. Which place has the strongest gravity for a Grade 5 student to feel?

- A) Earth's surface
- B) Mars surface
- C) Moon's surface
- D) Open space far from any planet

**Part B: Fill in the Blank**

Write the correct answer on each line.

1. If you weigh 90 pounds on Earth, you would weigh about 15 pounds on the Moon.
2. A 50-pound dog on Earth would weigh about 20 pounds on Mars.
3. A spacecraft part that weighs 600 pounds on Earth weighs about 100 pounds on the Moon.
4. If a robot weighs 250 pounds on Earth, it weighs about 100 pounds on Mars.
5. The mass of a 30-pound rock stays the same on every world, but on the Moon its weight is about 5 pounds.