Name: Date: Score: / 8

Friction: Learn and Practice

The force that slows things down

Read each question. Circle the best answer.

💡 Friction

- Friction is a force that happens when two surfaces rub together.
- Friction slows moving things down.
- Rough surfaces make more friction than smooth ones.
- sliding on ice or on carpet: carpet has more friction

1 What force slows down a sliding object?

A. Friction B. Static C. Magnetism D. Light

2 🚲 Bicycle brakes stop a bike by using...

A. Sunlight B. Friction C. Static electricity D. Magnets

3 👟 Which shoe soles grip the ground best?

A. Smooth plastic soles B. Wet soles C. Bumpy rubber soles D. Soapy soles

4 🚗 Which surface makes the most friction for a rolling toy car?

A. A shiny floor B. Thick carpet C. Glass D. Smooth ice

5 👐 You rub your hands together quickly. How do they feel?

A. Sticky B. Cold C. Warm D. Wet

6 Why do people spread sand on icy sidewalks in winter?

A. To make the ice shine B. To feed the birds C. To add friction so we do not slip D. To melt the ice with heat

7 A ball rolls on grass and on a smooth floor. Where does it roll farther?

A. On the smooth floor B. On the grass C. Same distance D. It cannot roll on either

8  Why is it easy to slide on ice?

A. Ice has lots of friction B. Ice is very warm C. Ice has very little friction D. Ice pulls you forward

✏️ Explain it! Write two facts you learned about friction.

ANSWER KEY

Friction: Learn and Practice (answers)

The force that slows things down

Read each question. Circle the best answer.

1 What force slows down a sliding object?

A. Friction B. Static C. Magnetism D. Light

Friction happens when surfaces rub. It works against motion and slows things down.

2 🚲 Bicycle brakes stop a bike by using...

A. Sunlight **B. Friction** C. Static electricity D. Magnets

Brake pads squeeze the wheel and rub against it. That friction slows the bike down.

3 👟 Which shoe soles grip the ground best?

A. Smooth plastic soles B. Wet soles

C. Bumpy rubber soles D. Soapy soles

Bumpy rubber makes lots of friction with the ground, so you do not slip.

4 🚗 Which surface makes the most friction for a rolling toy car?

A. A shiny floor **B. Thick carpet** C. Glass D. Smooth ice

Carpet is rough and soft, so it rubs against the wheels much more than smooth surfaces do.

5 👐 You rub your hands together quickly. How do they feel?

A. Sticky B. Cold **C. Warm** D. Wet

Friction makes heat. That is why rubbing your hands warms them on a cold day.

6 Why do people spread sand on icy sidewalks in winter?

A. To make the ice shine B. To feed the birds

C. To add friction so we do not slip

D. To melt the ice with heat

Sand makes the icy surface rough, which adds friction and helps our boots grip.

7 A ball rolls on grass and on a smooth floor. Where does it roll farther?

A. On the smooth floor B. On the grass

C. Same distance D. It cannot roll on either

The smooth floor has less friction than grass, so the ball keeps rolling for longer.

8  Why is it easy to slide on ice?

A. Ice has lots of friction B. Ice is very warm

C. Ice has very little friction

D. Ice pulls you forward

Ice is slippery and smooth, so there is very little friction to slow you down.