# Climate and Weather Hazards

Grade 3 Science Worksheet - Challenge Me

Name _____ Date _____

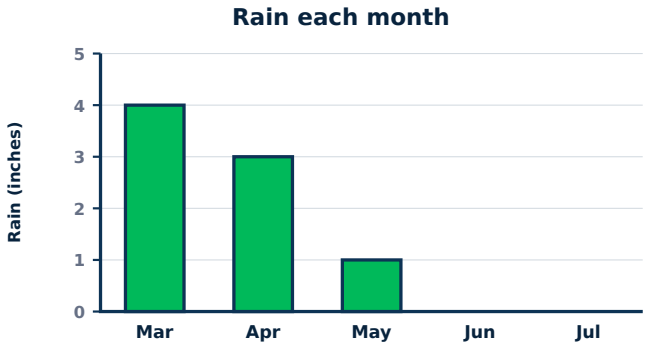
Circle the answer.

1. Town A has about 3 tornadoes a year. Town B has about 1 every 20 years. Which town most needs storm shelters in every school?
   - Town A, because tornadoes happen there often
   - Town B, because tornadoes surprise people
   - Town B, because it had one long ago
   - both the same, because tornadoes are rare

2. A sea wall protects a beach town from storm waves. What is one drawback of the sea wall?
   - it costs a lot and can wash away beach sand
   - it makes heat waves worse
   - it lets storm waves flood the town
   - it pulls lightning to the beach

3. Which evidence would show that a new levee works?
   - it rained very little that spring
   - the river stayed at 5 feet all year
   - the levee was painted to last
   - the river rose to 14 feet and the town stayed dry

4. A farm pond needs at least 2 inches of rain each month to stay full. Use the graph. In which months did the farm need stored water?




all five months  May, June and July  June and July only  March and April

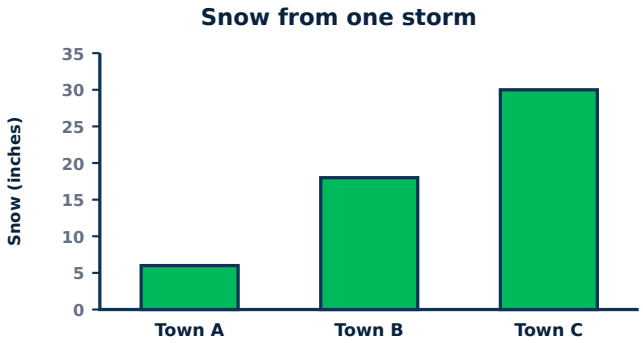
5. Drip pipes give water straight to roots. Sprinklers spray water into the air, where some dries up. Which is better in a drought, and why?
   - sprinklers, because spraying cools the air
   - sprinklers, because they cover more ground
   - drip pipes, because less water is lost
   - drip pipes, because they use more water

6. Engineers test two roofs in a wind machine. Roof A blows off at 60 mph. Roof B stays on at 130 mph. Which is the better choice for a hurricane area?
Roof A
Roof A, because it is lighter
Roof B
they are equally good

7. A city plants shade trees and paints roofs a light color. Which hazard is this plan meant to reduce?
lightning strikes  river flooding  heavy snow  extreme heat in summer

8. Why do towns use many years of records when planning for floods, not just last year's?
last year's records are not useful
rain is the same every year
floods happen at the same time every year
big floods are rare, so one year may miss them

9. A roof can safely hold about 20 inches of heavy snow. Use the graph. Which town's roofs needed to be cleared?




Town A only  all three towns  Town B and Town C  Town C only

10. Wildfires are likely in a dry, windy summer. Which design helps protect a town at the edge of a forest?
a pile of firewood by each door
a wide strip cleared of dry brush
wooden fences joining the houses
a row of dry bushes near the houses

**Scan to get this marked free. No screen time for your child.**
Print it · do it in pencil · scan it · PencilGo picks the next sheet.

# Climate and Weather Hazards

Answer Key - Grade 3 Science Worksheet - Challenge Me

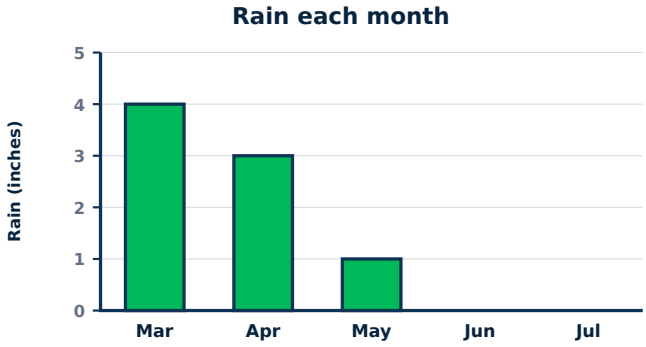
Circle the answer.

1. Town A has about 3 tornadoes a year. Town B has about 1 every 20 years. Which town most needs storm shelters in every school?
   - Town A, because tornadoes happen there often
   - Town B, because tornadoes surprise people
   - Town B, because it had one long ago
   - both the same, because tornadoes are rare

2. A sea wall protects a beach town from storm waves. What is one drawback of the sea wall?
   - it costs a lot and can wash away beach sand
   - it makes heat waves worse
   - it lets storm waves flood the town
   - it pulls lightning to the beach

3. Which evidence would show that a new levee works?
   - it rained very little that spring
   - the river stayed at 5 feet all year
   - the levee was painted to last
   - the river rose to 14 feet and the town stayed dry

4. A farm pond needs at least 2 inches of rain each month to stay full. Use the graph. In which months did the farm need stored water?




   - all five months
   - May, June and July
   - June and July only
   - March and April

5. Drip pipes give water straight to roots. Sprinklers spray water into the air, where some dries up. Which is better in a drought, and why?
   - sprinklers, because spraying cools the air
   - sprinklers, because they cover more ground
   - drip pipes, because less water is lost
   - drip pipes, because they use more water

6. Engineers test two roofs in a wind machine. Roof A blows off at 60 mph. Roof B stays on at 130 mph. Which is the better choice for a hurricane area?

Roof A

Roof A, because it is lighter

Roof B

they are equally good

7. A city plants shade trees and paints roofs a light color. Which hazard is this plan meant to reduce?

lightning strikes  river flooding  heavy snow  extreme heat in summer

8. Why do towns use many years of records when planning for floods, not just last year's?

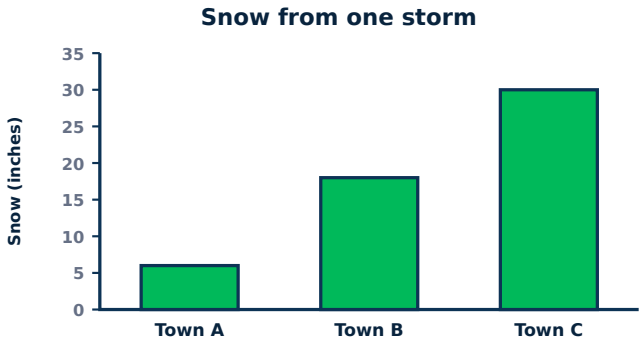
last year's records are not useful

rain is the same every year

floods happen at the same time every year

big floods are rare, so one year may miss them

9. A roof can safely hold about 20 inches of heavy snow. Use the graph. Which town's roofs needed to be cleared?




Town A only  all three towns  Town B and Town C  Town C only

10. Wildfires are likely in a dry, windy summer. Which design helps protect a town at the edge of a forest?

a pile of firewood by each door

a wide strip cleared of dry brush

wooden fences joining the houses

a row of dry bushes near the houses