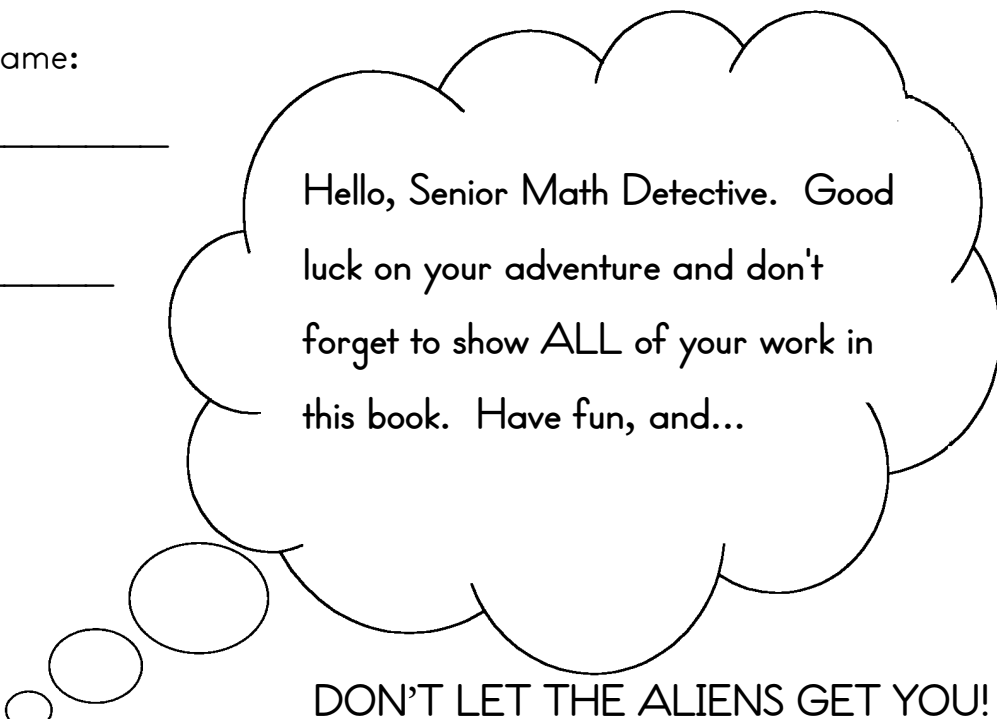


The Alien Invaders

Detective's Name:

Date:



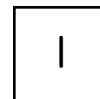
Hello, Senior Math Detective. Good luck on your adventure and don't forget to show ALL of your work in this book. Have fun, and...

DON'T LET THE ALIENS GET YOU!

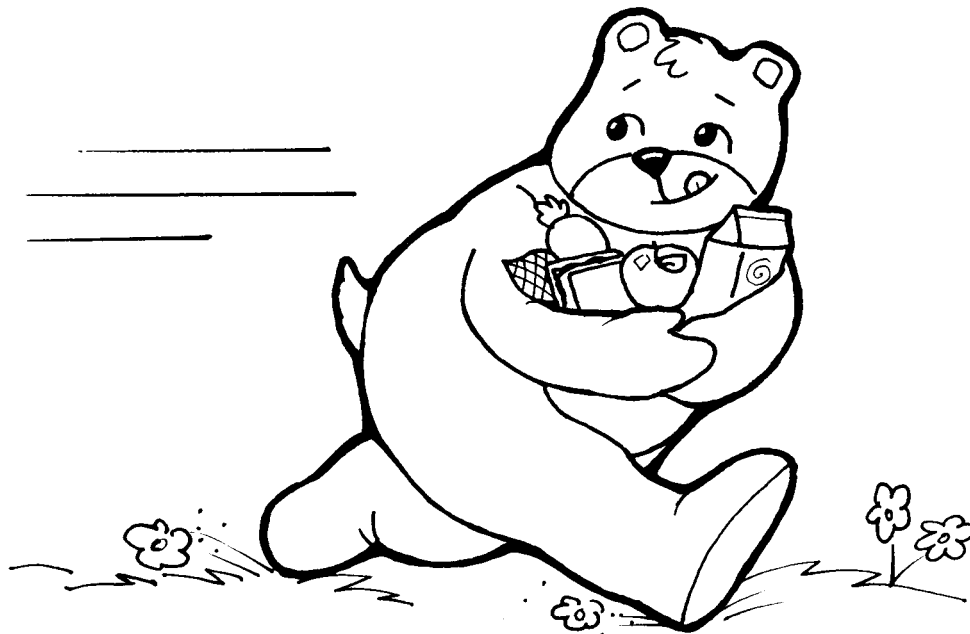
You and your friend are camping in the woods. It is the middle of the night, and you are trying to sleep when you hear a "THUMP!" You peek out of your tent and gasp! To your right there are 8 eyes looking at you. To your left you see 6 eyes. They must belong to bears that are after your food. How many hungry bears are there in all?

If your answer is. . .

- 14, go to page 2.
- 10, go to page 3.
- 6, go to page 10.
- 8, go to page 6.
- 7, go to page 5.

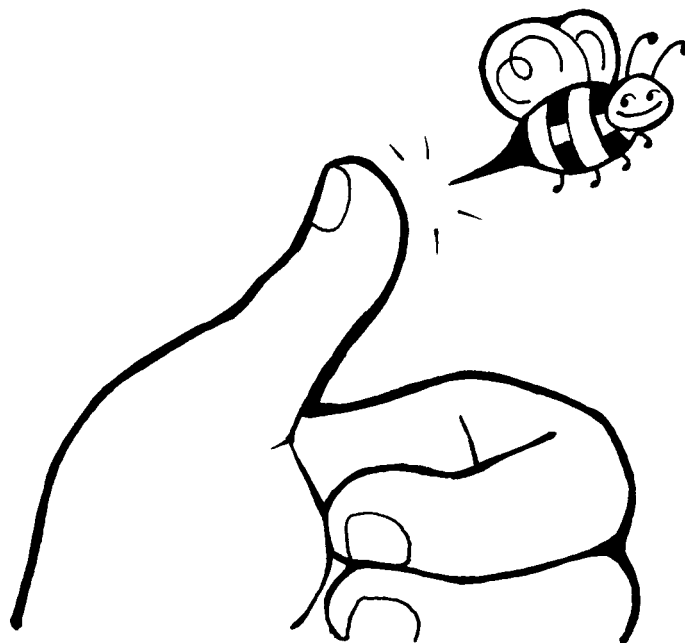


Yipes! A bear runs away with all of your food. This is not the right answer. Go back to your last page and try again.



2

OUCH! A bee stings you on your thumb! This is not the right answer. Go back to your last page and try again.



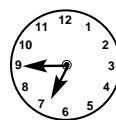
3

Oh, NO! You used up 15 seconds. Only 5 seconds left! You are about to give up when you see a printed time on the door. It says 10:35. There are some cards on the ground with clock faces on them. You grab the one that matches the door and stick it onto the door. It better be the right one. Your time is almost up!

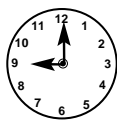
If you choose . . .



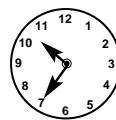
go to page 12.



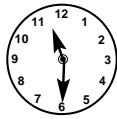
go to page 23.



go to page 18.



go to page 19.



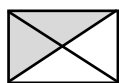
go to page 15.

4

You pick up some pots and pans and bang on them. The eyes are gone! You and your friend look around to see if anything is missing. "Hey! Look over here," your friend yells.

You look down at the biggest footprints you have ever seen next to some open bags of food. Which picture shows that the animals ate $\frac{1}{3}$ of your food? (Look at the shaded part of the pictures.)

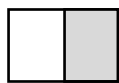
If you choose . . .



go to page 10.



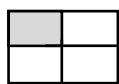
go to page 7.



go to page 21.



go to page 22.



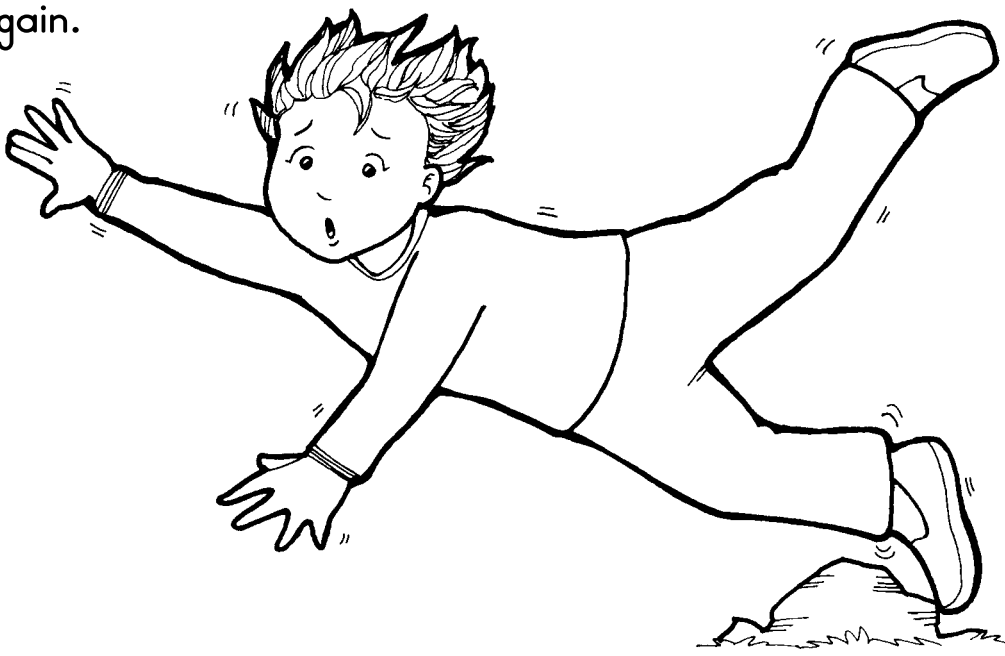
go to page 6.

5

Look out! You step in some quicksand and start to sink! This is not the right answer. Go back to your last page and try again



Help! You start to run, but you fall down and twist your ankle! This is not the right answer. Go back to your last page and try again.



Yikes! That is one BIG toe! As you and your friend are getting ready to measure the rest of the foot, something grabs you from behind. You turn around to see two huge, purple aliens. Each one has two heads, a tail, and claws. They are 6 feet tall from their feet to their waists, 4 feet tall from their waists to their necks, and 2 more feet from their necks to the top of their heads. How many feet tall is each alien?

If your answer is... 12 feet, go to page 11.

13 feet, go to page 13.

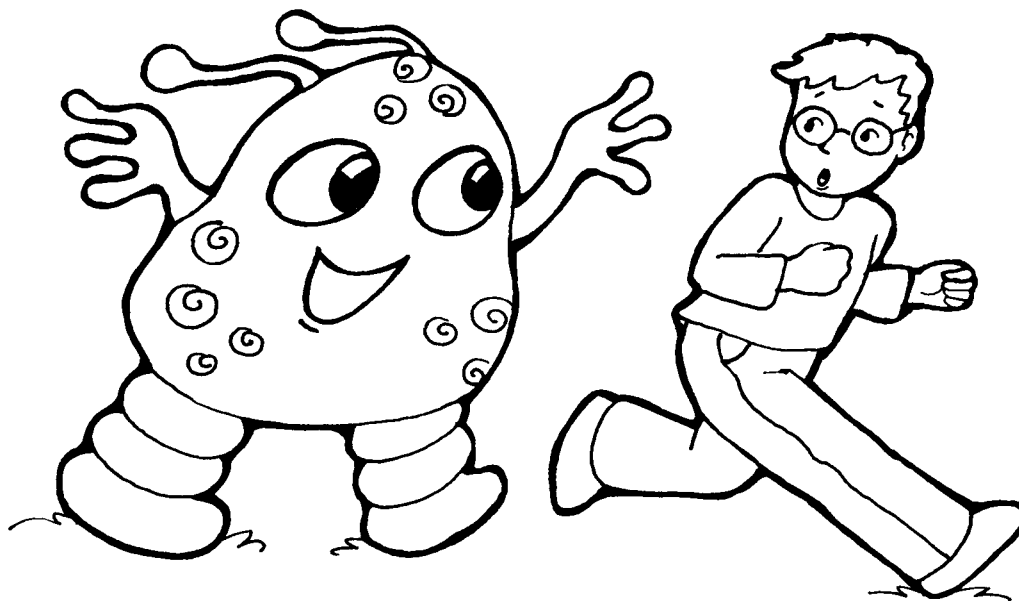
10 feet, go to page 9.

8 feet, go to page 10.

11 feet, go to page 12.

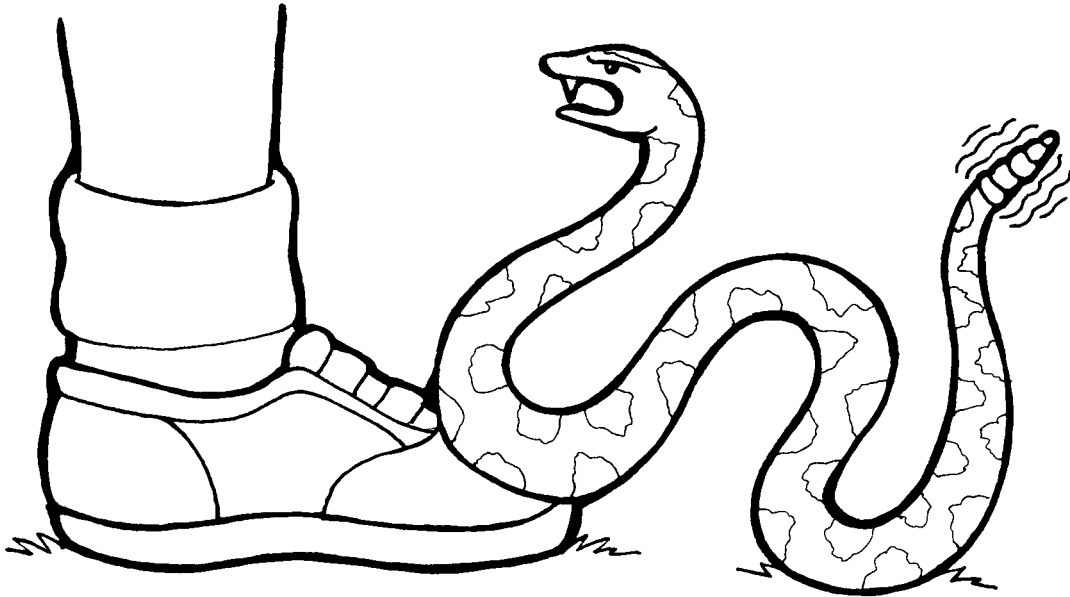
8

E-E-E-K! You get so scared that you run all the way home and never solve the mystery of the alien invaders. This is not the right answer. Go back to your last page and try again.



9

Hiss! You look down. There is a big rattlesnake sitting on your foot, and it looks mad! This is not the right answer. Go back to your last page and try again.



10

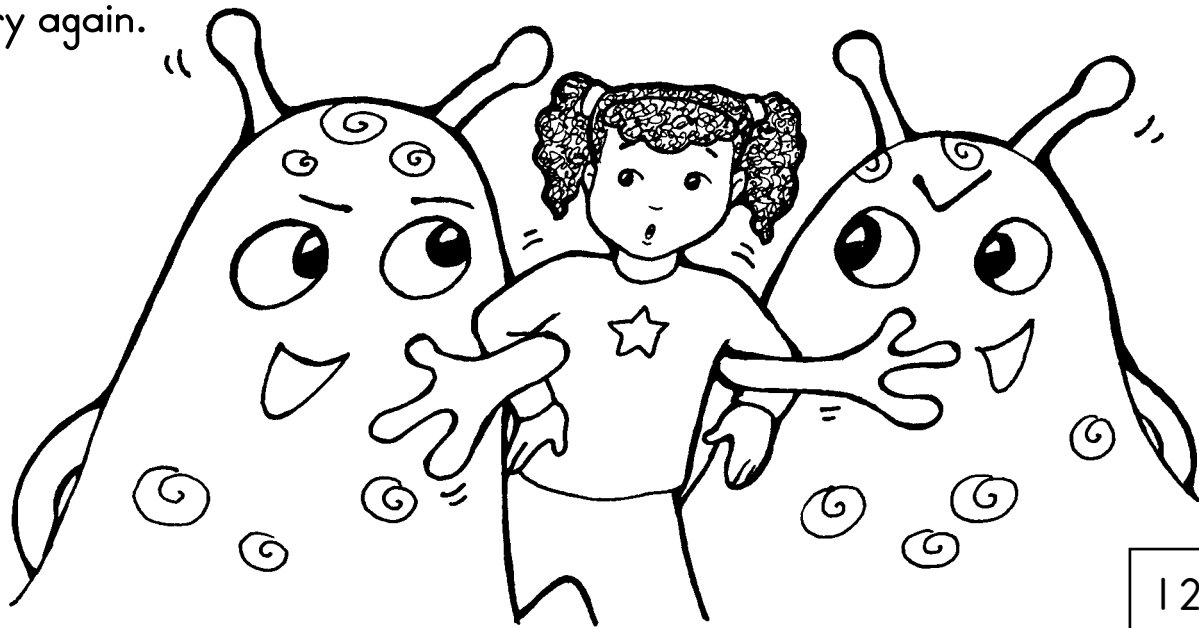
"You are coming with us," hiss the aliens as they drag you off. They stop in front of a big hill and pull on a tree branch. A door swings open, and you are pulled inside. Wow! It's a spaceship!

"Now tell us how we can take over the earth, or we will use our alien magic to make all of the houses in your town vanish!" they say with an evil grin. Oh, no! There are only 20 houses in your small town. If the aliens use their magic on 5 and 3 of them, and then 2 more, how many houses will be left?

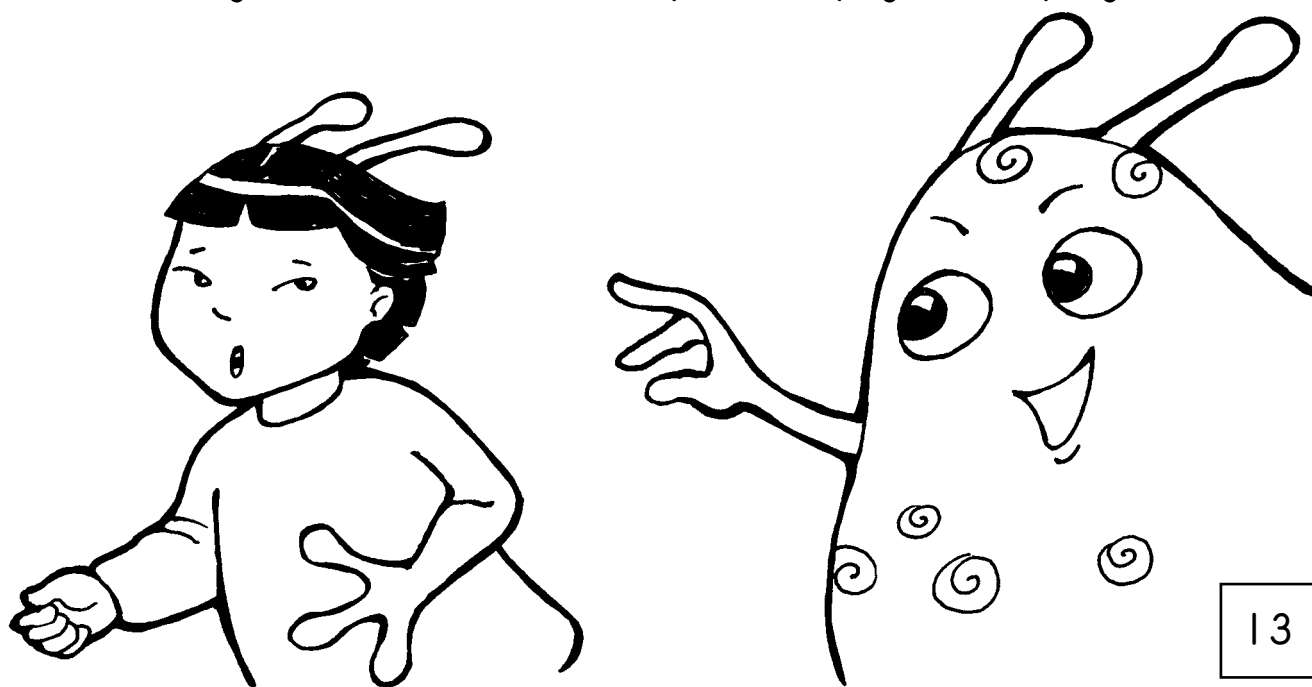
If your answer is... 30, go to page 9.
 10, go to page 14.
 9, go to page 13.
 0, go to page 15.
 20, go to page 12.

11

The aliens decide to take you back to their planet and put you in a zoo! This is not the right answer. Go back to your last page and try again.



Gasp! You try to run, but the aliens turn you into an alien! This is not the right answer. Go back to your last page and try again.

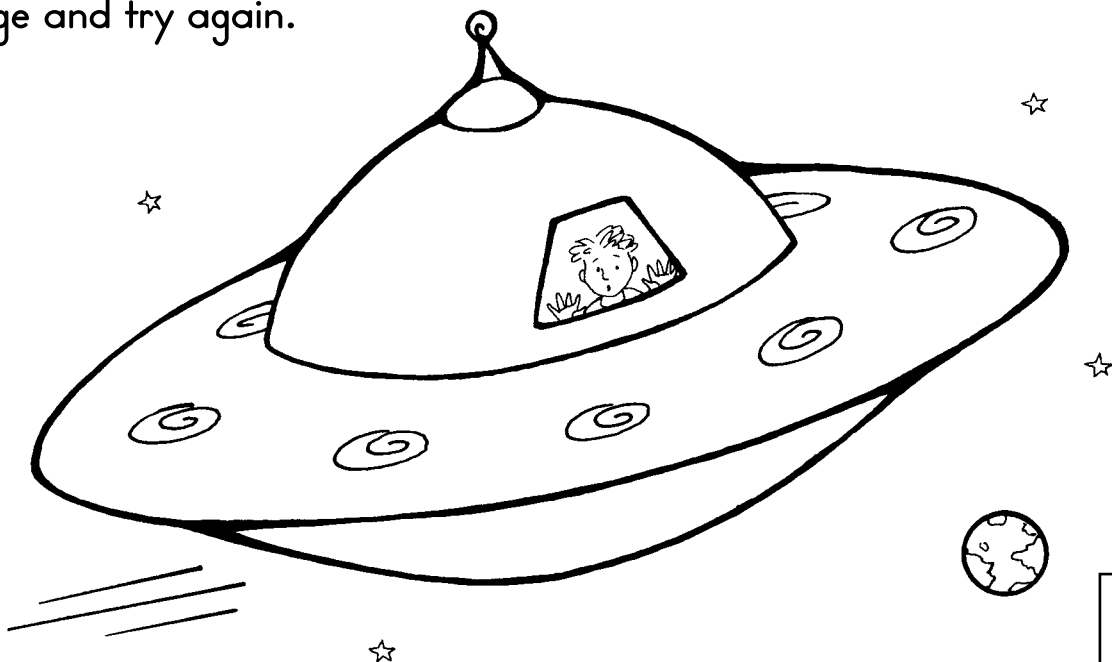


The aliens take you into a room full of flashing buttons. "We will give you a minute to think," the aliens hiss. "Then we will come back. You know what will happen if you do not help us." They thump out of the room. You and your friend look around. You see a button that says "SELF DESTRUCT" high up on a wall. Will that blow up the ship? You have to try it! There are 5 boxes in the room. They are 2 feet tall, 7 feet tall, 6 feet tall, 4 feet tall, and 8 feet tall. The button is about 17 feet up. What 2 boxes can you stack up to be the CLOSEST to 17 feet tall?

- If you choose . . .
- 8 and 2, go to page 12.
 - 4 and 6, go to page 13.
 - 7 and 8, go to page 17.
 - 7 and 4, go to page 16.
 - 7 and 6, go to page 15.

14

Zoom! The spaceship takes off with you in it! Will you ever see the earth again? This is not the right answer. Go back to your last page and try again.



15

Yuck! Green slime drips from the ceiling and covers you! This is not the right answer. Go back to your last page and try again.



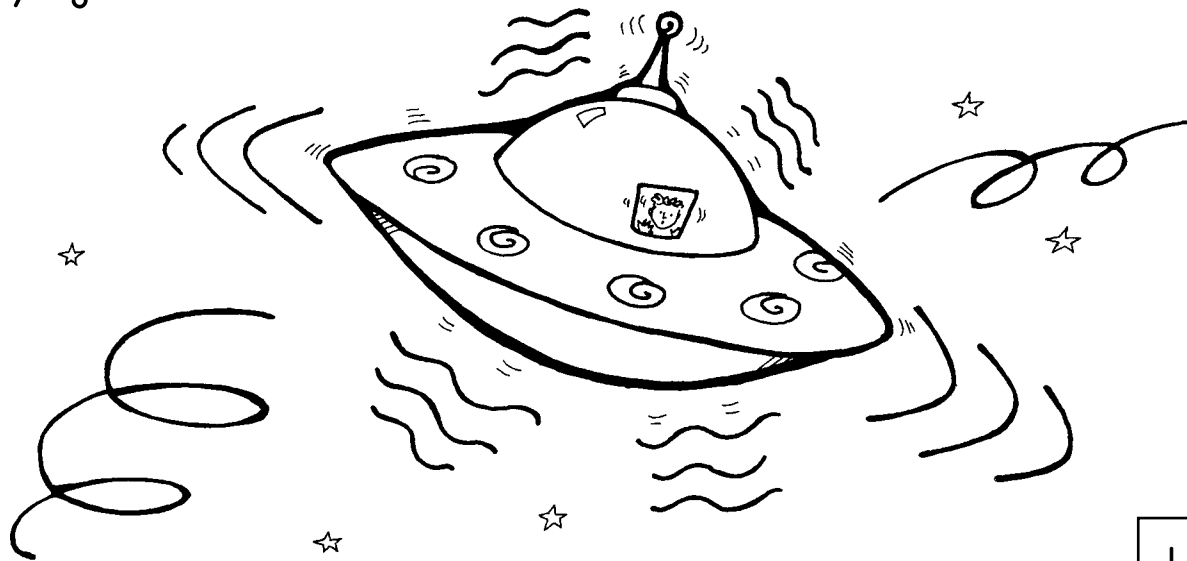
16

You push the button and a sign lights up. It says, "Ship will explode in 20 seconds! 19 . . . 18" You climb down and run to the room's door. It opens, but when you get to the spaceship door, you can't find its handle. You push on the door, but it is stuck. "How much time before we blow up?" your friend yells. It took 3 seconds to climb down the boxes, 5 seconds to run from the other room, and 7 seconds to try to open this door. How much time have you used up?

If your answer is...
 15 seconds, go to page 4.
 12 seconds, go to page 18.
 13 seconds, go to page 21.
 14 seconds, go to page 23.
 8 seconds, go to page 16.

17

Uh, oh! The ship is shaking and spinning. It's going to explode!
Help! This is not the right answer. Go back to your last page and try again.

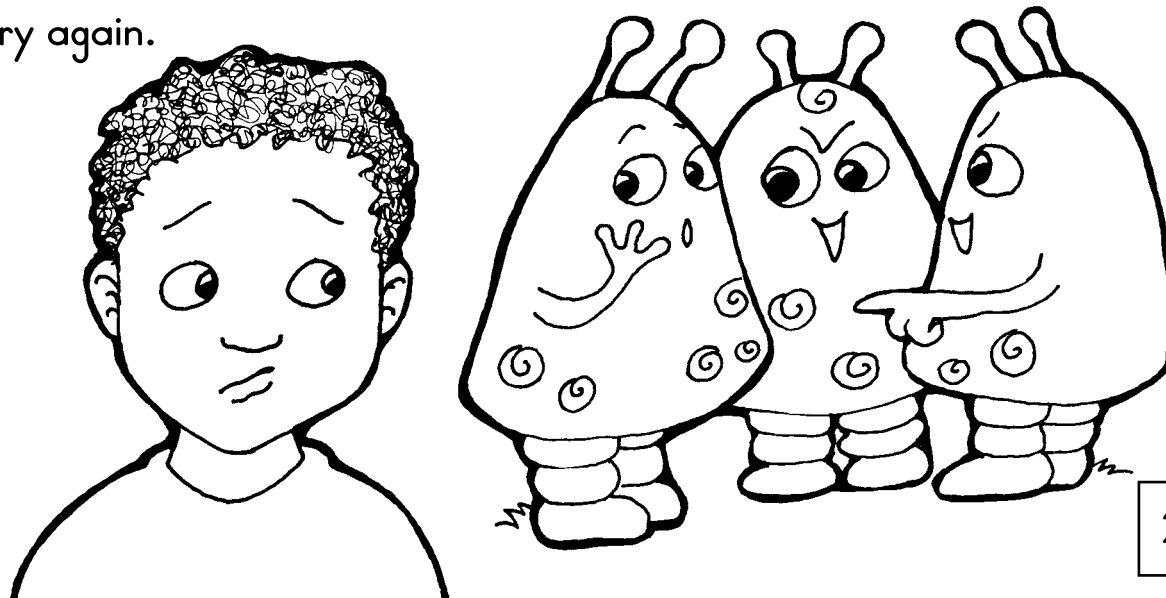


18

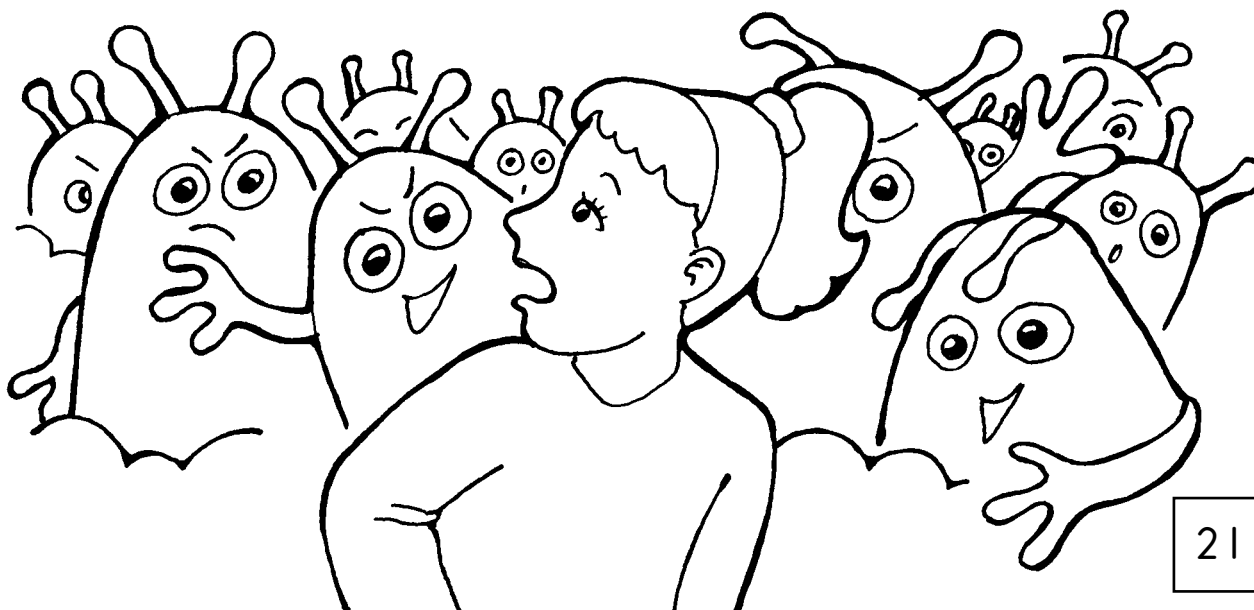
Hooray! You picked the correct clock! The door swings open, and you and your friend dive out the door just as the ship begins to take off. The aliens are trying to get home before the ship blows up! You and your friend see a flash of light. Wow! The ship is gone! You turn around and see a man running up to you. He is a reporter who was looking for the ship. He writes down your story and takes your picture for the newspaper. When you get home, the mayor is so happy to hear that you saved the town, that she throws a big party for you. You are heroes! Great job, Math Detective!

19

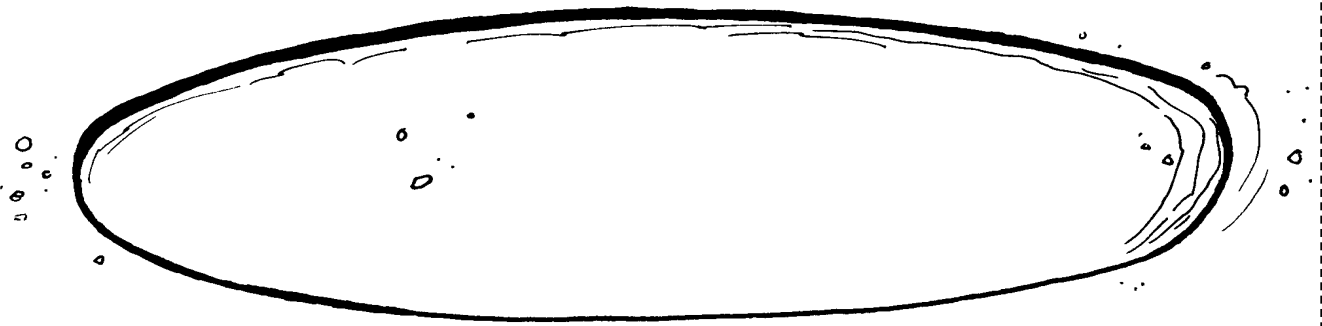
Look out! The aliens see you! They save the ship and decide that you are too smart to stay on earth. They take you back to their planet. This is not the right answer. Go back to your last page and try again.



Gulp! You hear a funny sound and turn around. Your friend is gone, and there are 10 aliens standing in back of you! This is not the right answer. Go back to your last page and try again.



"Wow! Look at the size of those prints!" your friend says. "I bet elephants' feet aren't even that big." "Let's check it out," you reply. You take your ruler out and hold it up to one of the toe prints. Which measurement tells about how many centimeters (cm) long the toe is?



If your answer is... 6 cm, go to page 10. 10 cm, go to page 9.
 20 cm, go to page 7. 13 cm, go to page 6.
 15 cm, go to page 8.

22

An alien fitness coach walks in the room. "Time to do 1,000 push-ups," it says with an evil grin. This is not the right answer. Go back to your last page and try again.



23

Expert Math Detectives Badges

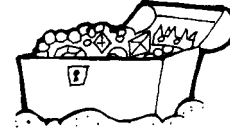
Reproduce these badges on heavy paper. Make enough copies for each student in the class.

**Official Expert
Math Detective**



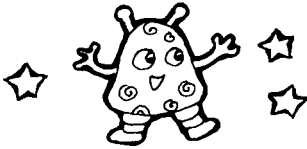
I solved the mystery of
The Dinosaur Detective.

**Official Expert
Math Detective**



I solved the mystery of
The Treasure of Nog.

**Official Expert
Math Detective**



I solved the mystery of
The Alien Invaders.

Note: After
successful completion
of a book, students
receive a badge.

Badges can be worn
or displayed on a
chart, a wall, or a
bulletin board.

**Official Expert
Math Detective**



I solved the mystery of
The Haunted House.

**Official Expert
Math Detective**



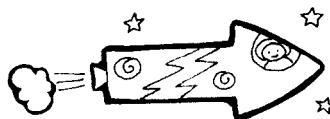
I solved the mystery of
The Insect Investigation.

**Official Expert
Math Detective**



I solved the mystery of
The Scuba Scare.

**Official Expert
Math Detective**



I solved the mystery of
The Future Flight.