TEAMMS

SCIENCE PROCESS SKILLS



MASTERY FOCUS

STEM

1 MERCURY BOOK



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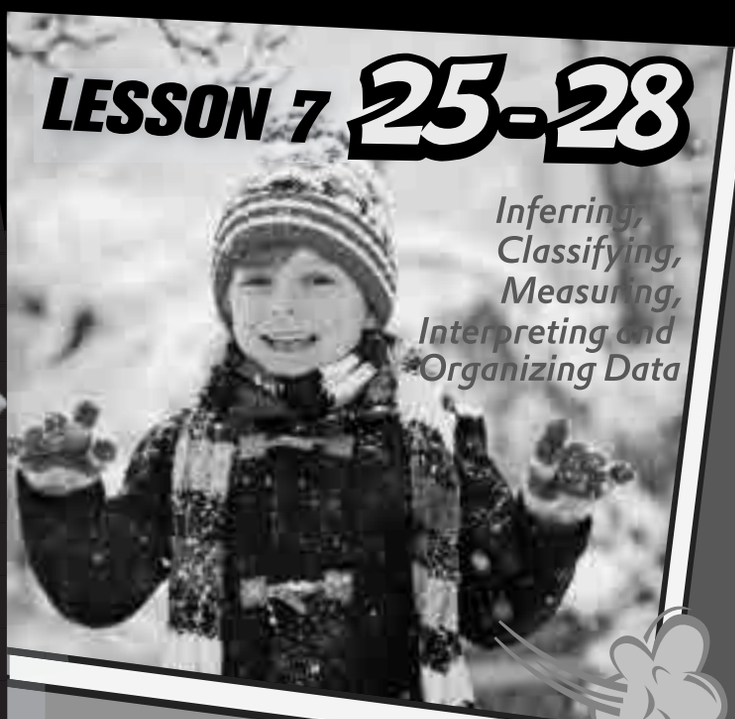
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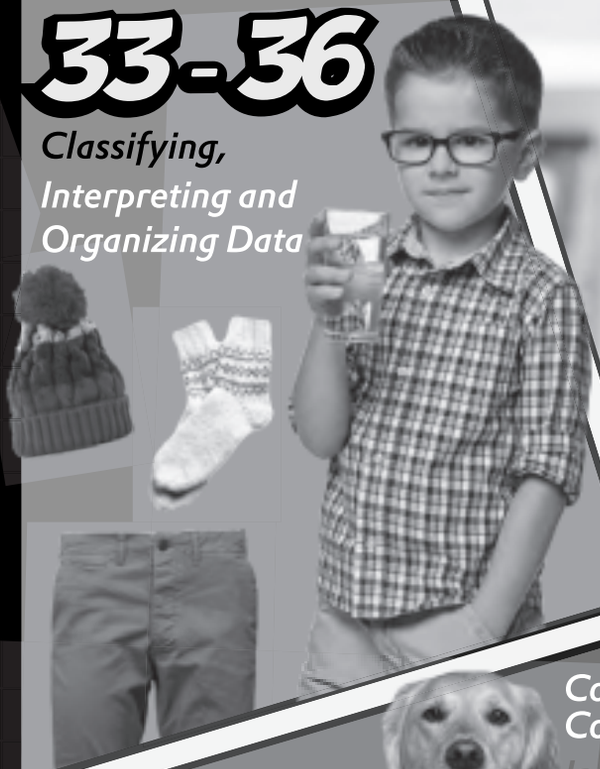
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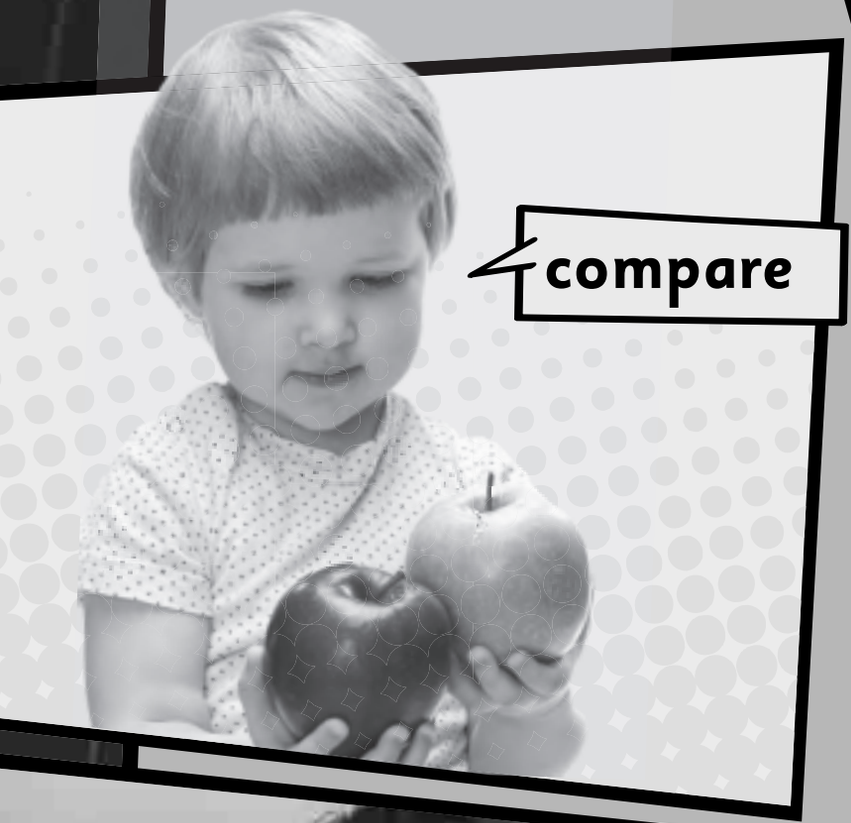
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LESSON 1

STEM SKILL
Developing Process Skills



compare



measure

observe



sort



STEM SKILL
Developing Process Skills

Match the pictures to the words.









compare

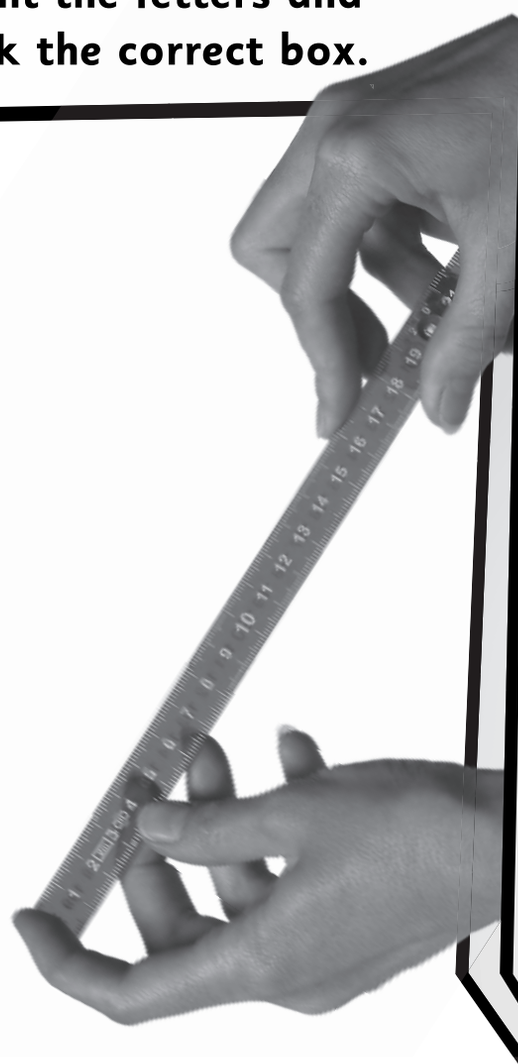
observe

sort

measure

STEM SKILL
Measuring

Count the letters and check the correct box.



1. Whose name is the shortest?

- [x] Tom
- [ ] Lily
- [ ] Jean
- [ ] Anne

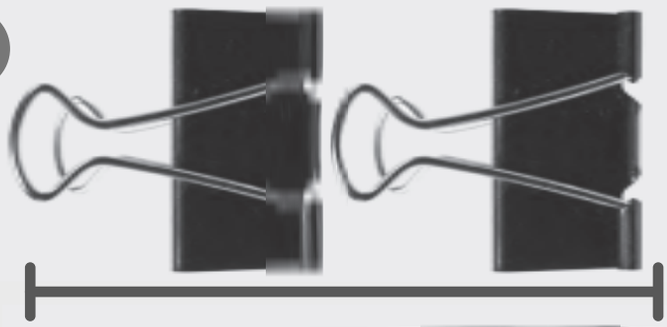
2. Whose name is the longest?

- [ ] Tiffany
- [x] Jefferson
- [ ] Nancy
- [ ] Mary

STEM SKILL
Measuring

Use a  to measure the name tags.

Ex.





It's 2 clips long.

1



It's 3 clips long.

2



It's 2 clips long.

3

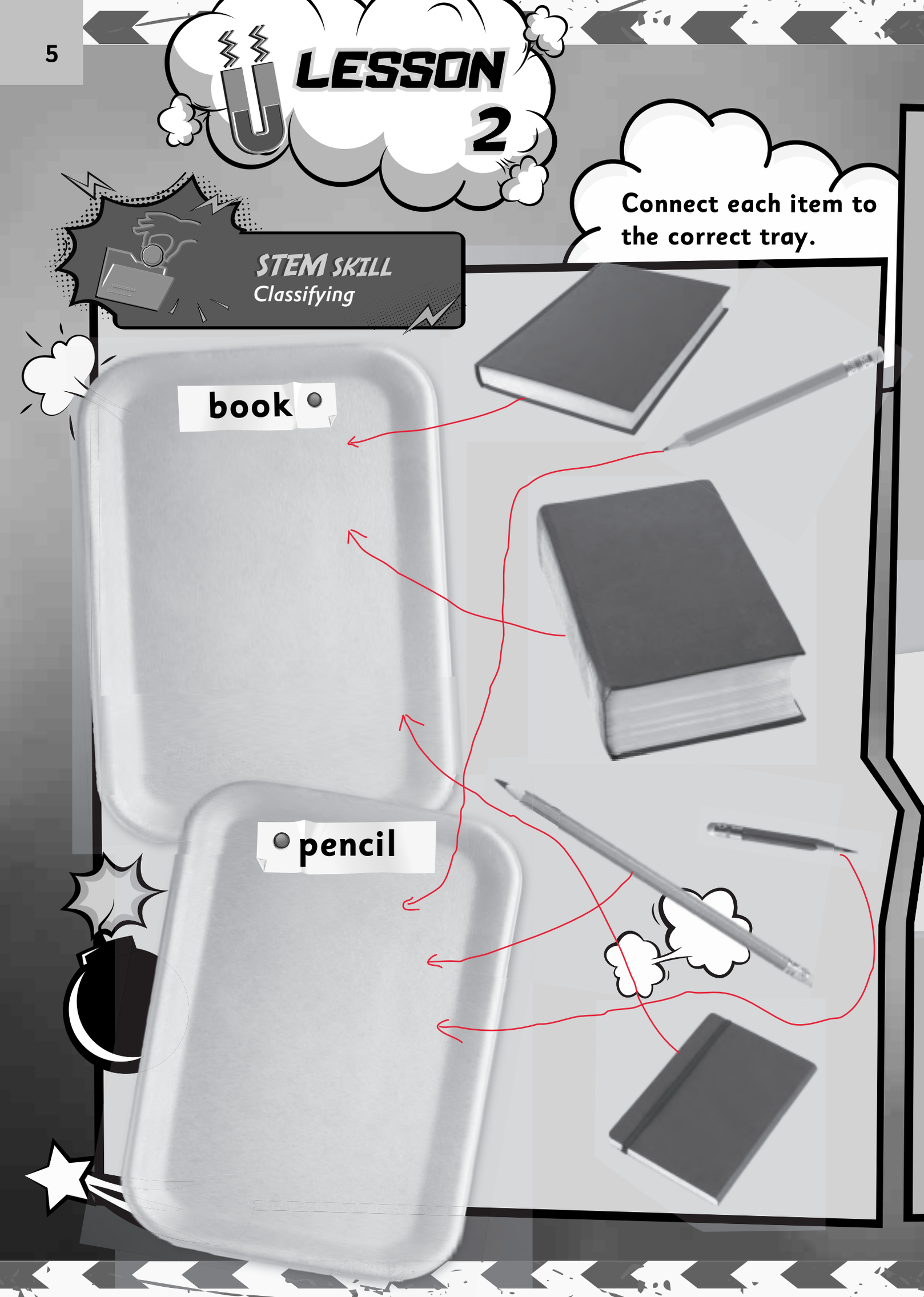


It's 4 clips long.

LESSON 2

STEM SKILL
Classifying

Connect each item to the correct tray.



STEM SKILL
Classifying

Which picture does not belong? Cross it out.

a







b







c



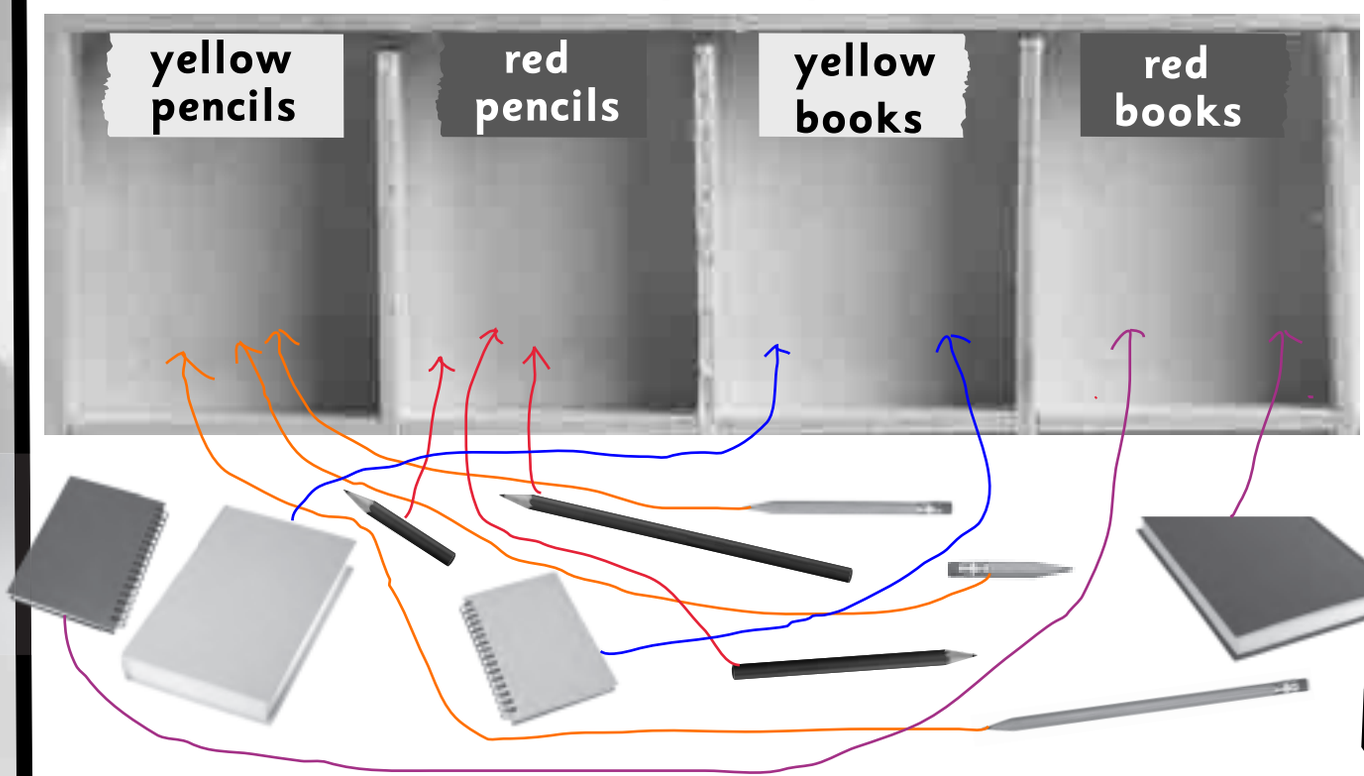




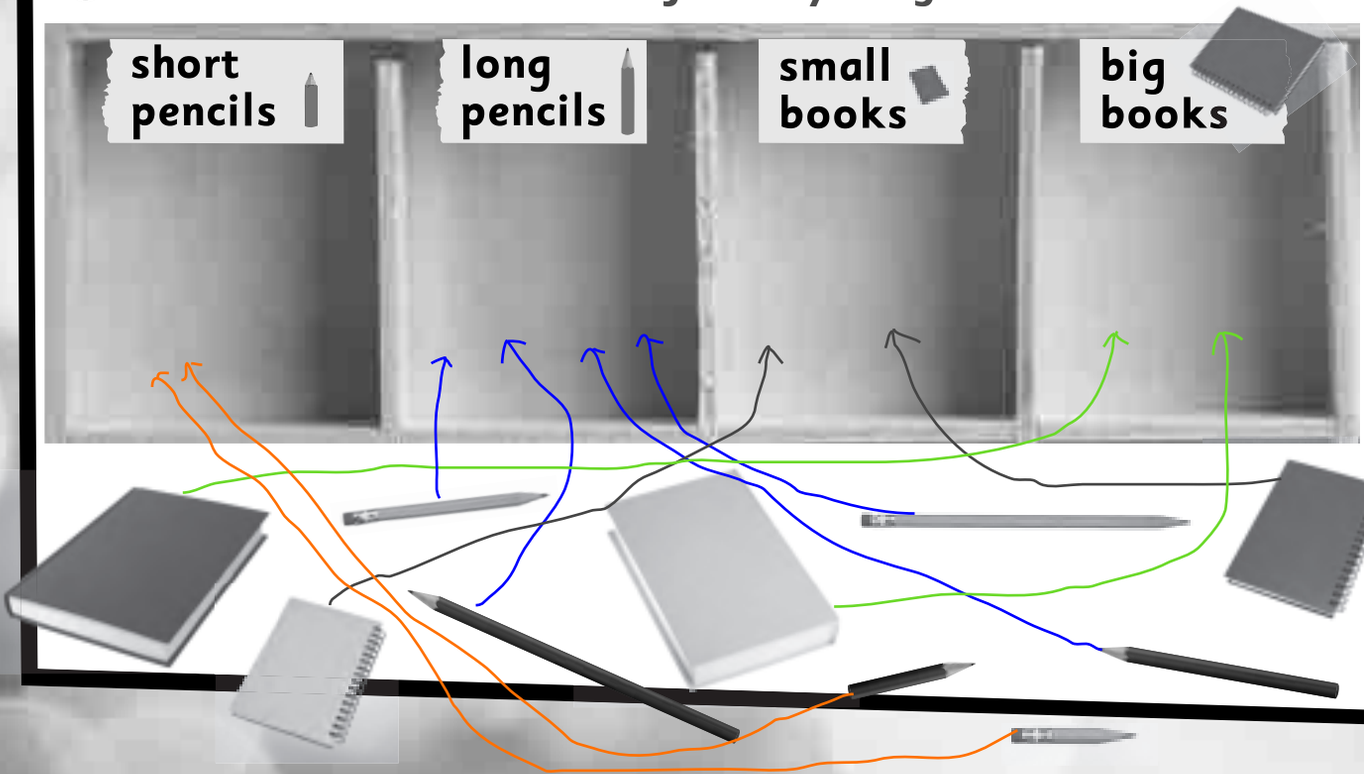
STEM SKILL
Classifying

Sort the objects by features.

a Draw lines to sort the objects by color.



b Draw lines to sort the objects by length or size.



Circle the opposite.

STEM SKILL
Comparing and Contrasting

a



stand up



sit down



take out

b



be quiet



talk



sleep

c



put away



take out



open

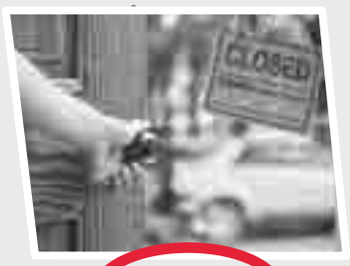
d



open



be quiet



close

LESSON 3

STEM SKILL
Interpreting and Organizing Data

Who is who? Write the missing labels. Not all the words will be used.

friend
brother
sister



mom



dad



brother



me



sister

STEM SKILL
Inferring

We change as we grow.

★ Look at how the girl changes.



baby girl



girl



woman

★ Look at how the boy changes. Write the labels in the correct order.



man



boy



baby boy

baby boy → boy → man

STEM SKILL
Classifying

Sort the family members into the correct categories.

Male	Female
dad	mom
brother	sister



STEM SKILL
Inferring

Write the labels in the correct order.

1 baby boy

2 boy

3 man

3 dad



1 baby girl

2 girl

3 woman

3 mom



LESSON 4

STEM SKILL
Interpreting and Organizing Data

Sort the vehicles by size. Write the names of the vehicles below.



truck

train

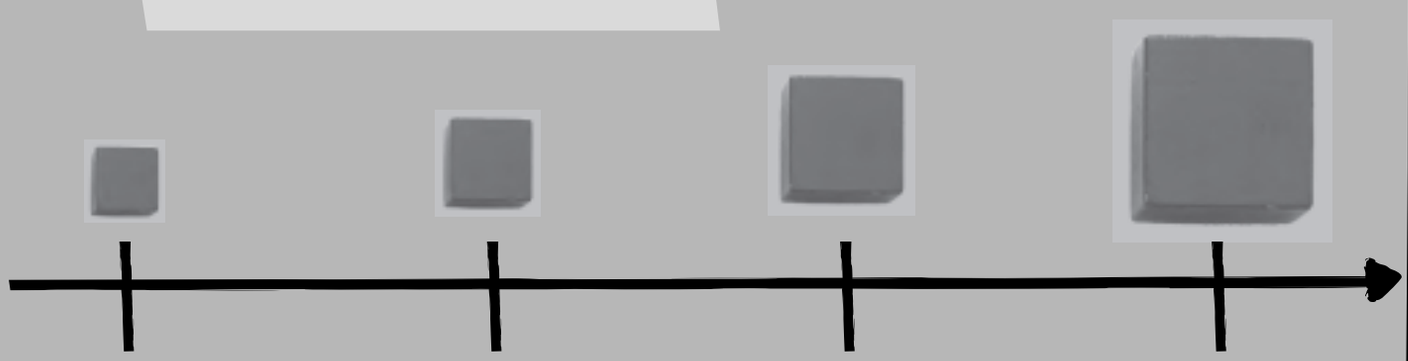




bus



car



car | truck | bus | train

STEM SKILL
Comparing and Contrasting

What does not belong? Cross out the object that does not belong.

A









B



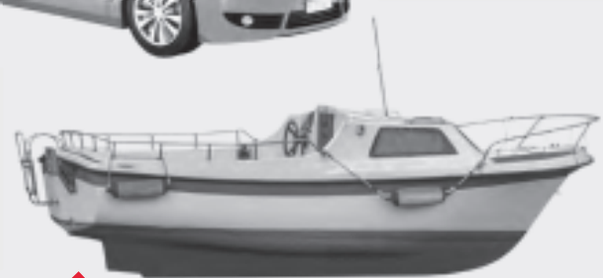






C









STEM SKILL
Classifying

Connect the objects to the correct places.

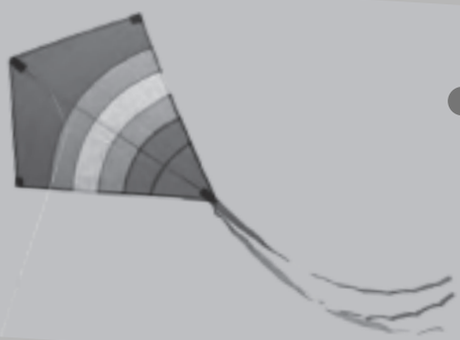












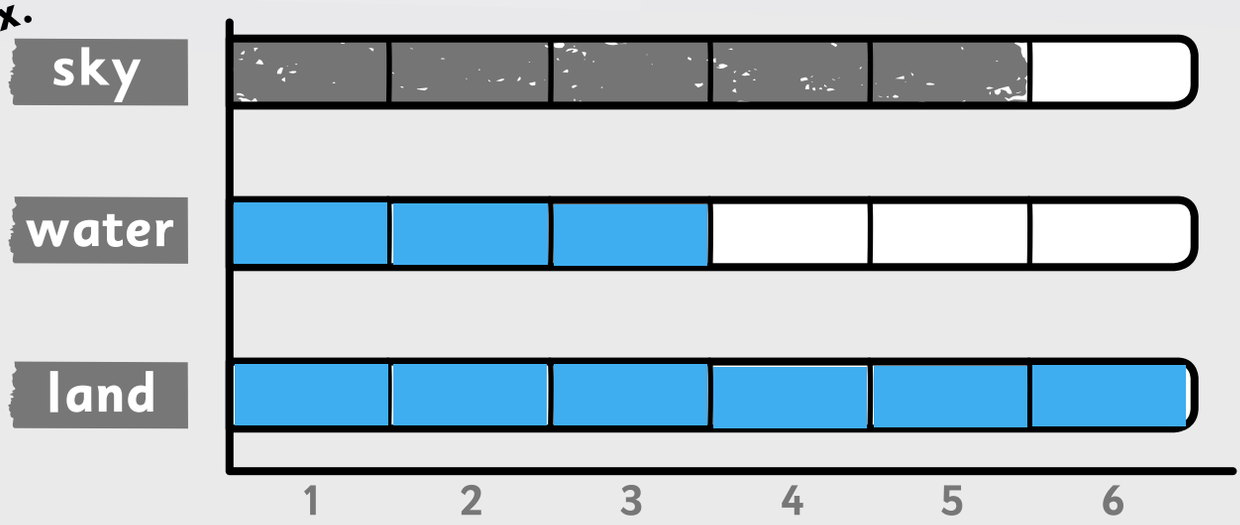


How many objects are in or on each place? Make a chart.

STEM SKILL
Interpreting and Organizing Data



Ex.



LESSON 5

STEM SKILL
Inferring

Animals change as they grow.

☆ **Look at how the cat changes.**



baby cat



adult cat



old cat

☆ **Put the pictures in order by writing 1, 2, and 3.**



2



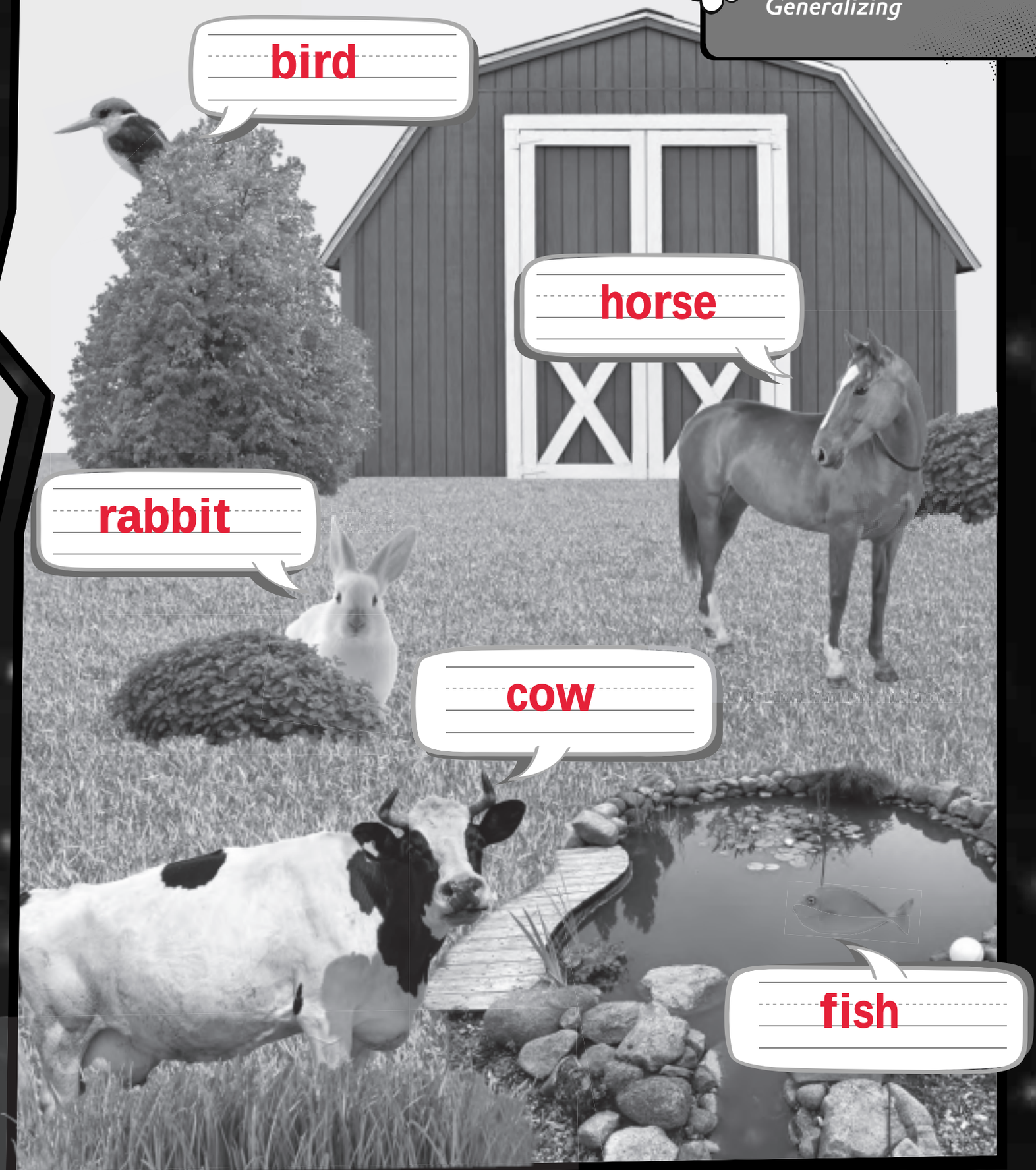
1



3

STEM SKILL
Generalizing

Where can you find these animals? Write the names of the animals in the boxes.

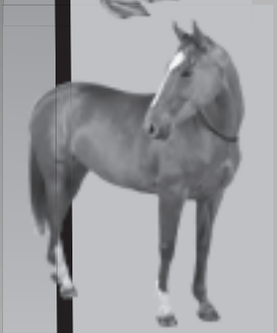


STEM SKILL
Interpreting and Organizing Data

Count the legs.

Ex.

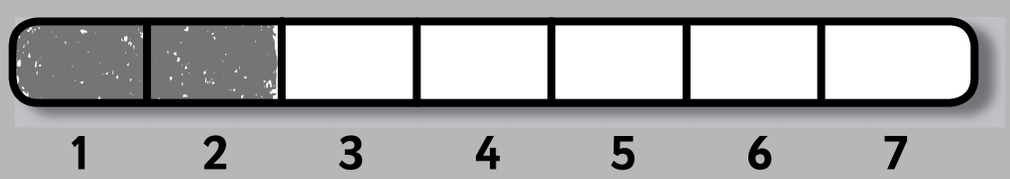


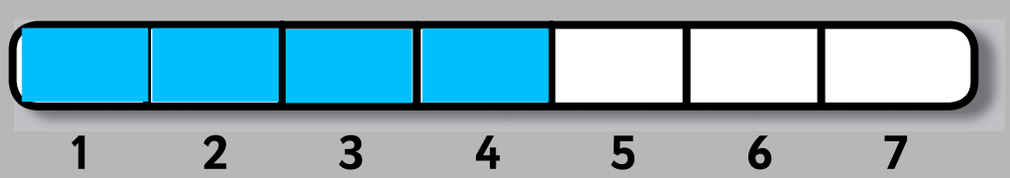


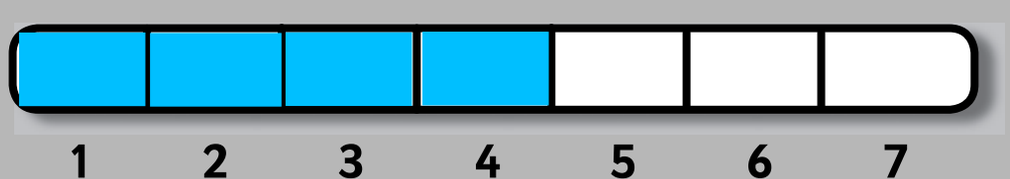


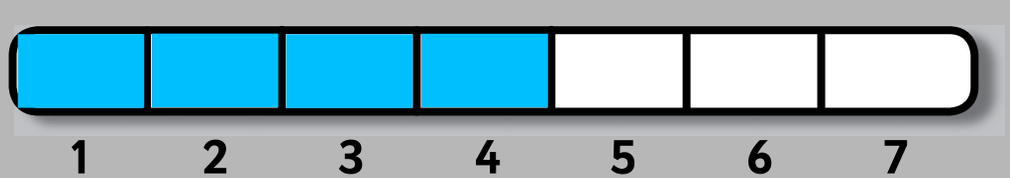


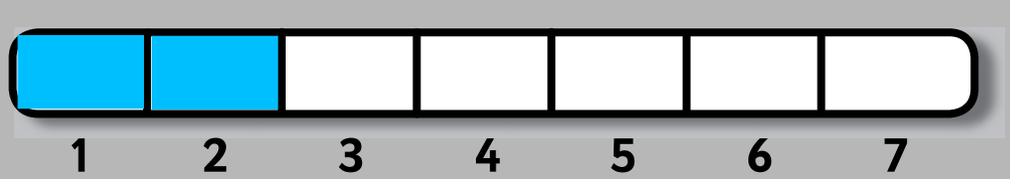








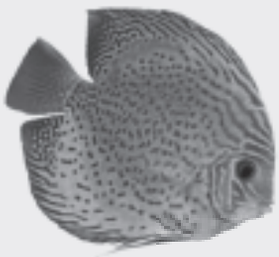




STEM SKILL
Interpreting and Organizing Data

★ **Sort the four-legged animals from shortest to tallest.**









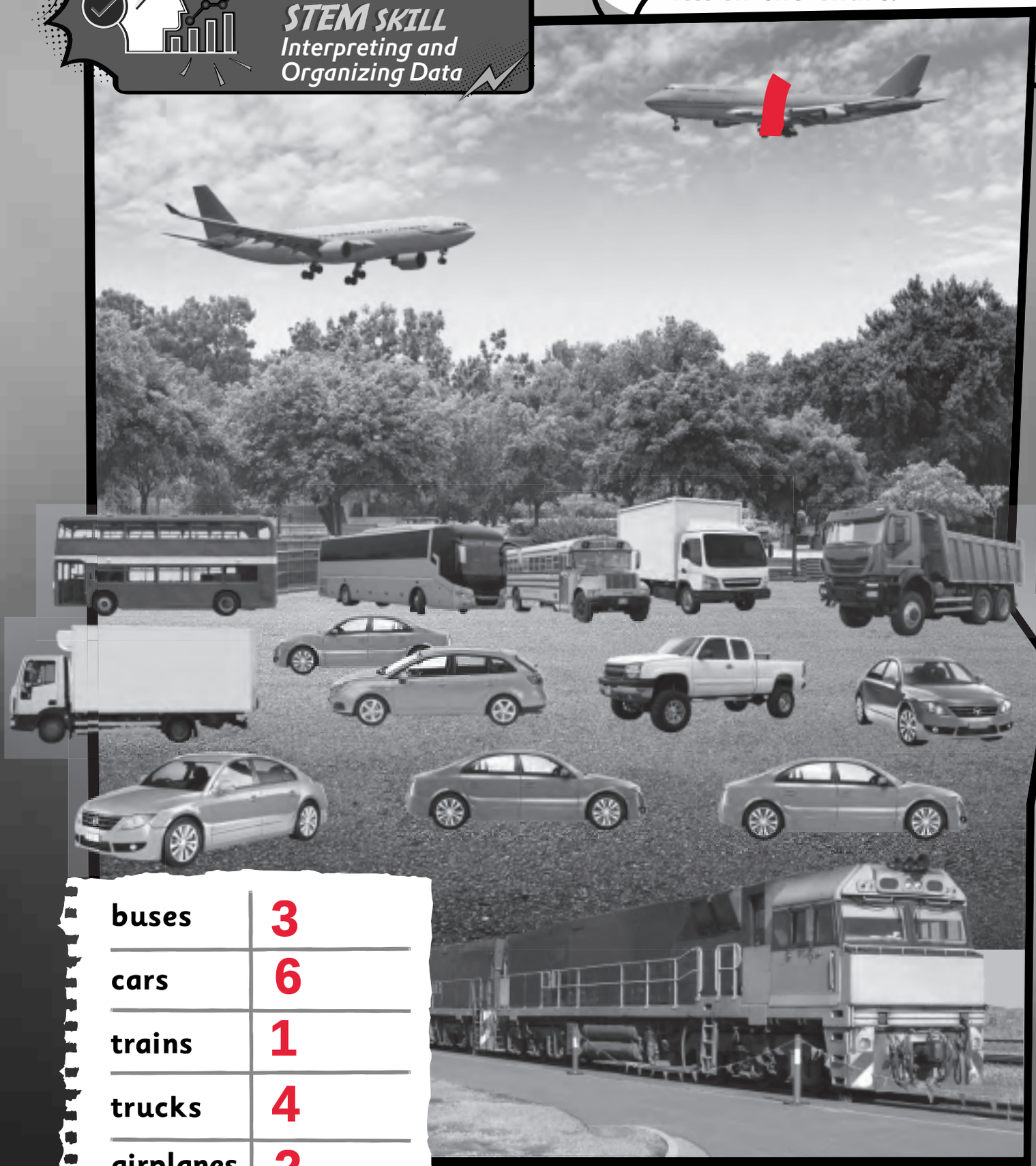


rabbit | pig | cow | horse

LESSON 6

STEM SKILL
Interpreting and Organizing Data

Look at the picture. Count the vehicles and fill in the chart.



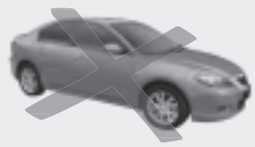
buses	3
cars	6
trains	1
trucks	4
airplanes	2

STEM SKILL
Classifying

Count the objects and sort them.










five

Ex. cars
buses

three

boats
balls

two

airplanes
dolls
trains
















STEM SKILL
Comparing and Contrasting

Count the animals.
Which number is bigger?
Draw a mouth to eat it.

>

Ex.



3 < 5



a



9 > 6



b

0 < 10



c



7 > 5



d

0 < 3



Teacher's Note

3 < 5
Three is less than five.
Five is greater than three.

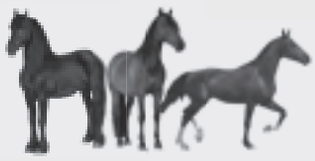
Count the animals. If the numbers are the same, use =. If the numbers are not the same, use ≠.

STEM SKILL
Comparing and Contrasting

Ex.


3 = 3



2 ≠ 3


a


5 ≠ 6


b


5 = 5


c

0 = 0

d


1 ≠ 2


Teacher's Note

3 = 3
Three is equal to three.

2 ≠ 3
Two is not equal to three.

LESSON 7

STEM SKILL
Inferring

**Answers may vary. This is one possible answer.

Connect two words to each picture.

rainy | cool | hot | cold









windy | snowy | sunny | warm

STEM SKILL
Classifying

Sort the words from cold to hot.

chilly ~~hot~~
warm ~~cold~~
cool

cold

chilly

cool

warm

hot

Match each word to a picture.



chilly

hot

rainy

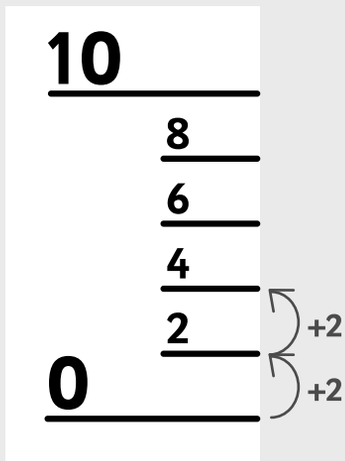
cold

windy

STEM SKILL
Measuring

Read the thermometers.

Ex.



20 °C



★ **What's the temperature?**

1



28 °C

2



10 °C

3



50 °C

4



14 °C

STEM SKILL
Interpreting and Organizing Data

A fever is when a person's body temperature is hotter than 37.5 °C.



37.5 °C



Who has a fever? Check the boxes.



Mike



Nancy



Jean



Tom



Olivia











LESSON 8

STEM SKILL
Interpreting and Organizing Data

In the blue ▭, put a ✓ for the colors you see. In the green ▭, write how many animals you see of each color.

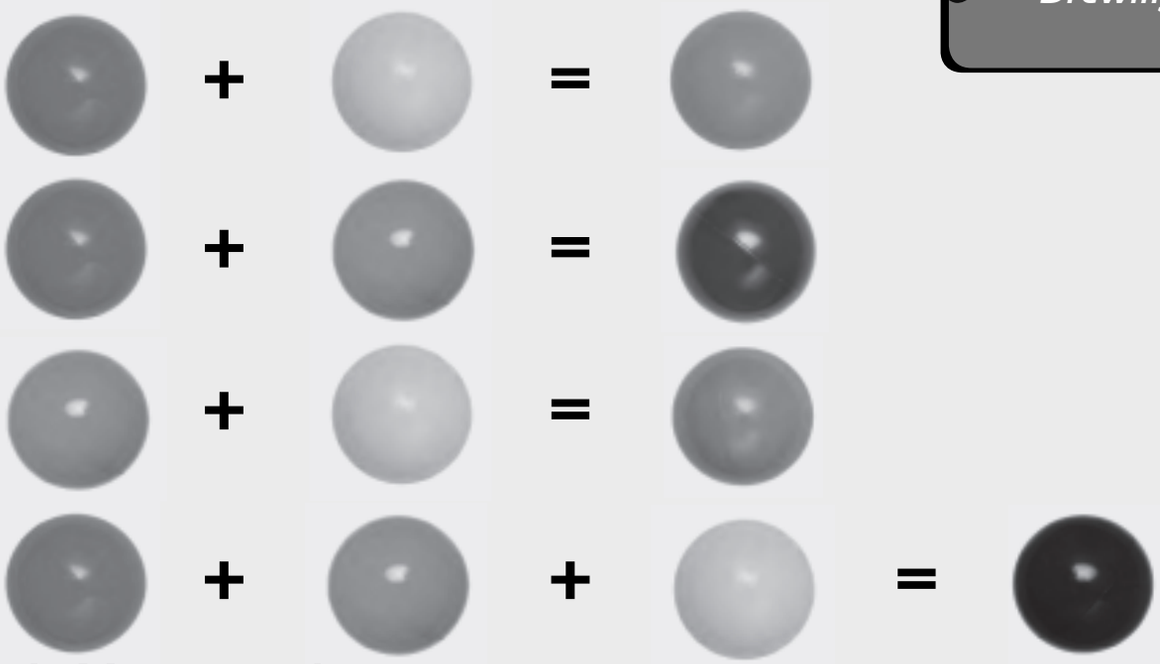


** The answers may vary.

1 parrot
5 fish
2 birds
1 pig
1 horse
3 rabbits
2 birds
1 horse
1 cat
1 horse
1 fish
2 cats:

red	yellow	purple	pink	brown	white	black	orange
V	V		V	V	V	V	V
1	5		3	1	6	2	3

Mixing Colors



1. Make purple.



red + blue = purple

2. Make orange.



red + yellow = orange

3. Make green.



blue + yellow = green

STEM SKILL
Observing

Circle the answers.



1 Amanda



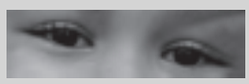
2 Jack



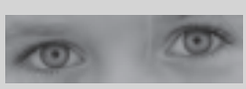
3 Lucy



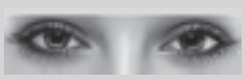
4 Mike

★ Who has dark brown  ?

(1)	2
3	4

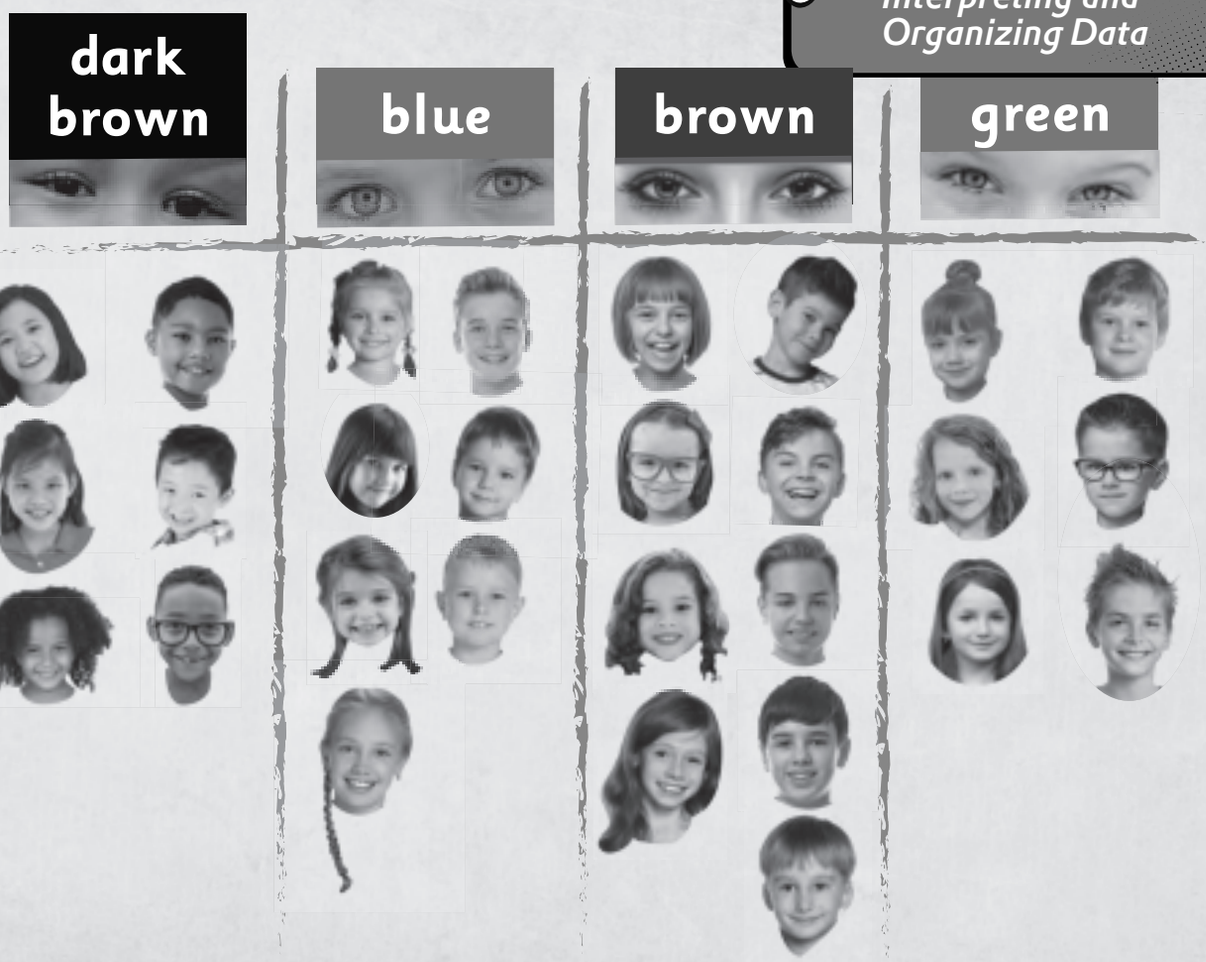
★ Who has blue  ?

1	(2)
3	(4)

★ Who has brown  ?

1	2
(3)	4

STEM SKILL
Interpreting and Organizing Data



1. How many girls have blue eyes? **4**
2. How many boys have brown eyes? **5**
3. How many children have green eyes? **6**

LESSON 9

STEM SKILL
Classifying

Draw lines to sort the clothes by weather.























How many do you see?
Fill in the chart.

STEM SKILL
Interpreting and Organizing Data





shirt	2
shorts	2
skirt	2
T-shirt	3
pants	1
dress	1

STEM SKILL
Interpreting and Organizing Data

Color	Class A	Class B
		
		
		
		

Use the chart from page 35 to answer these questions.

❶ How many yellow items are there in Class A and B?

7

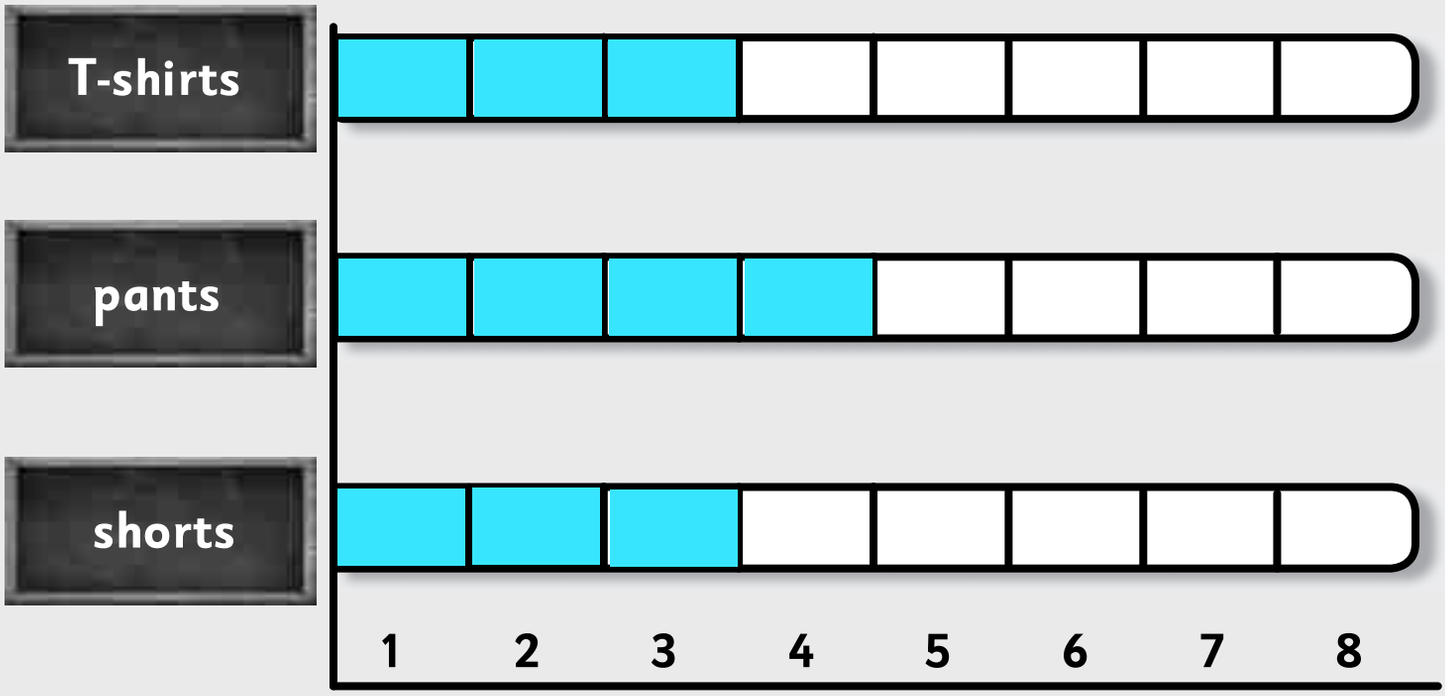
❷ How many red items are there in Class B?

6

❸ How many black and green items are there in Class A?

9

★ How many of each item are there in Class A and B?



LESSON 10

STEM SKILL
Classifying

Sort the objects by usage. Write the names of the objects in the correct boxes.

marker	computer	pencil
book	crayon	pen





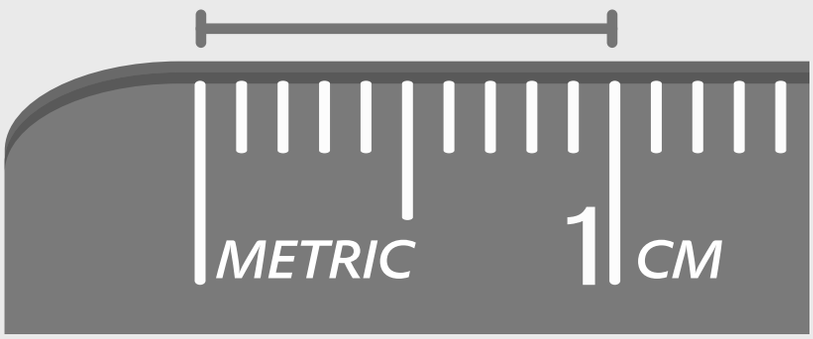
marker
pencil
crayon
pen

computer
book

Take a look at a real ruler.

STEM SKILL
Measuring

1 centimeter = 1 cm

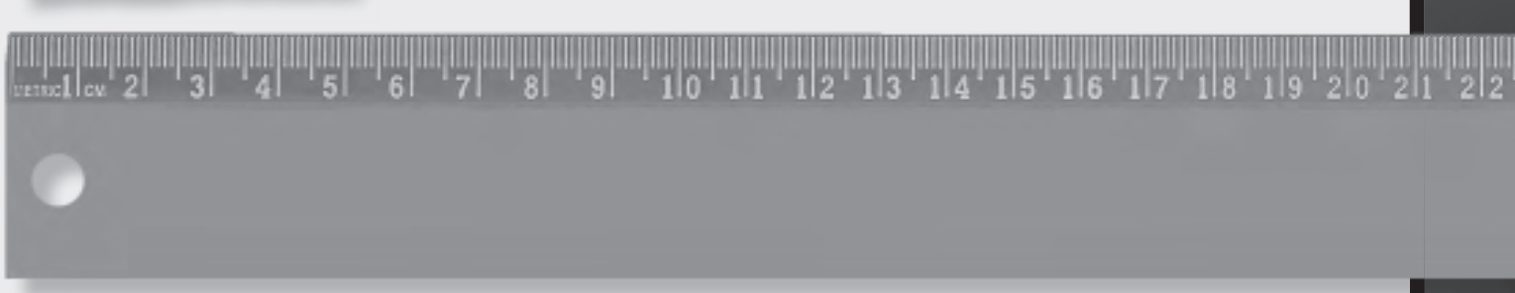


a



b





a

18 cm

b

5 cm

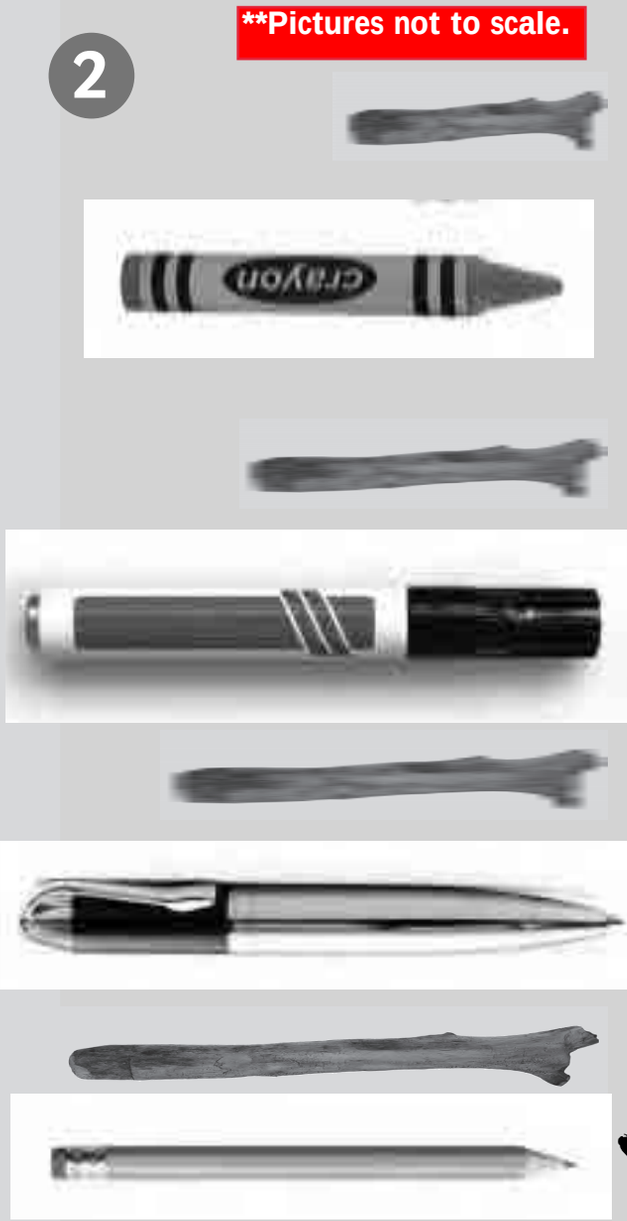
STEM SKILL
Measuring

Find a pen, a crayon, a pencil, and a marker. Use the ruler on the side of the page to measure how long each object is. Then sort the objects from shortest to longest.

1 Record your measurements.

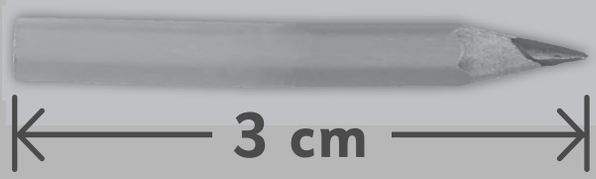
	pen	crayon	pencil	marker
length (cm)	16	10	17	15

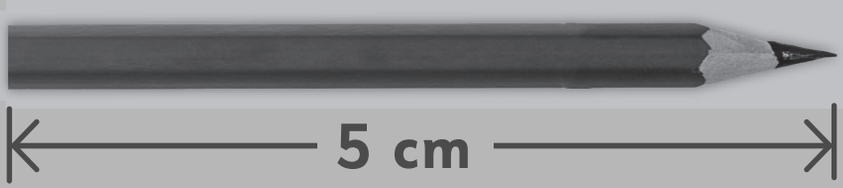
2 **Pictures not to scale.

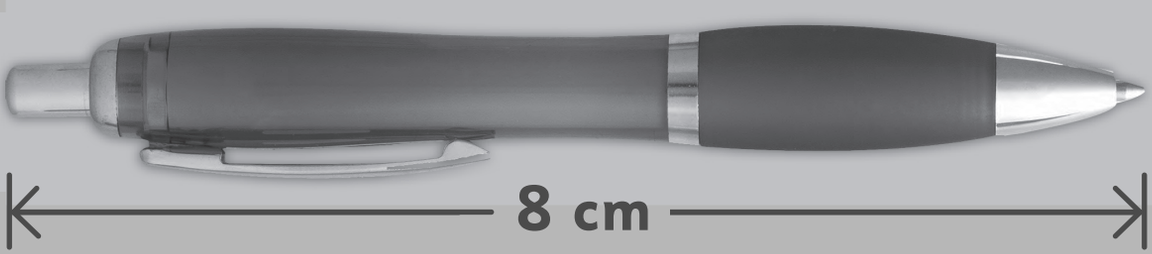


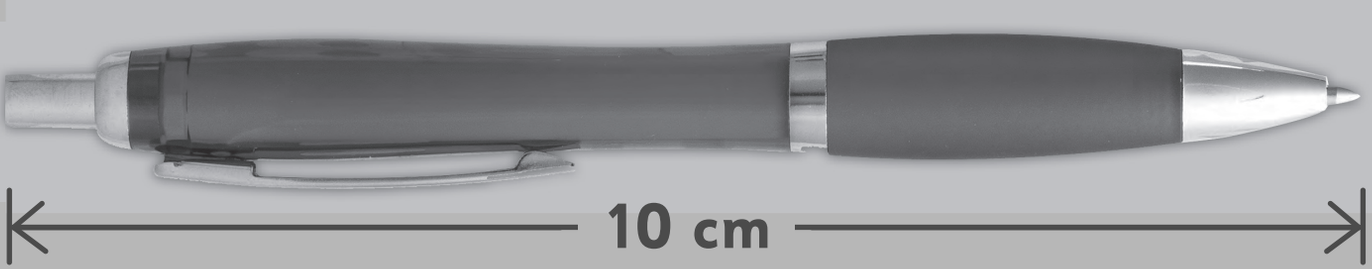
STEM SKILL
Measuring

Look at the toy pens and pencils.



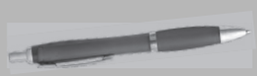
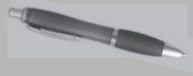






1 Look at the  and the .
How much longer is the  ?

5 cm − 3 cm = 2 cm

2 Look at the  and the .
How much shorter is the  ?

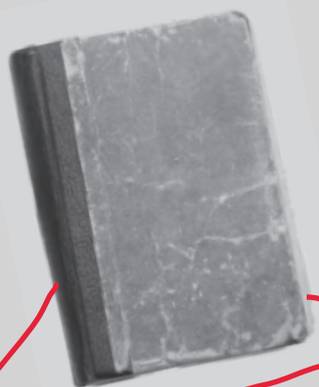
10 cm − 8 cm = 2 cm

Objects are not to scale.

LESSON 11

STEM SKILL
Comparing and Contrasting

Look at the pictures. Connect each picture to two boxes.





notebook

purple and new

brown and old





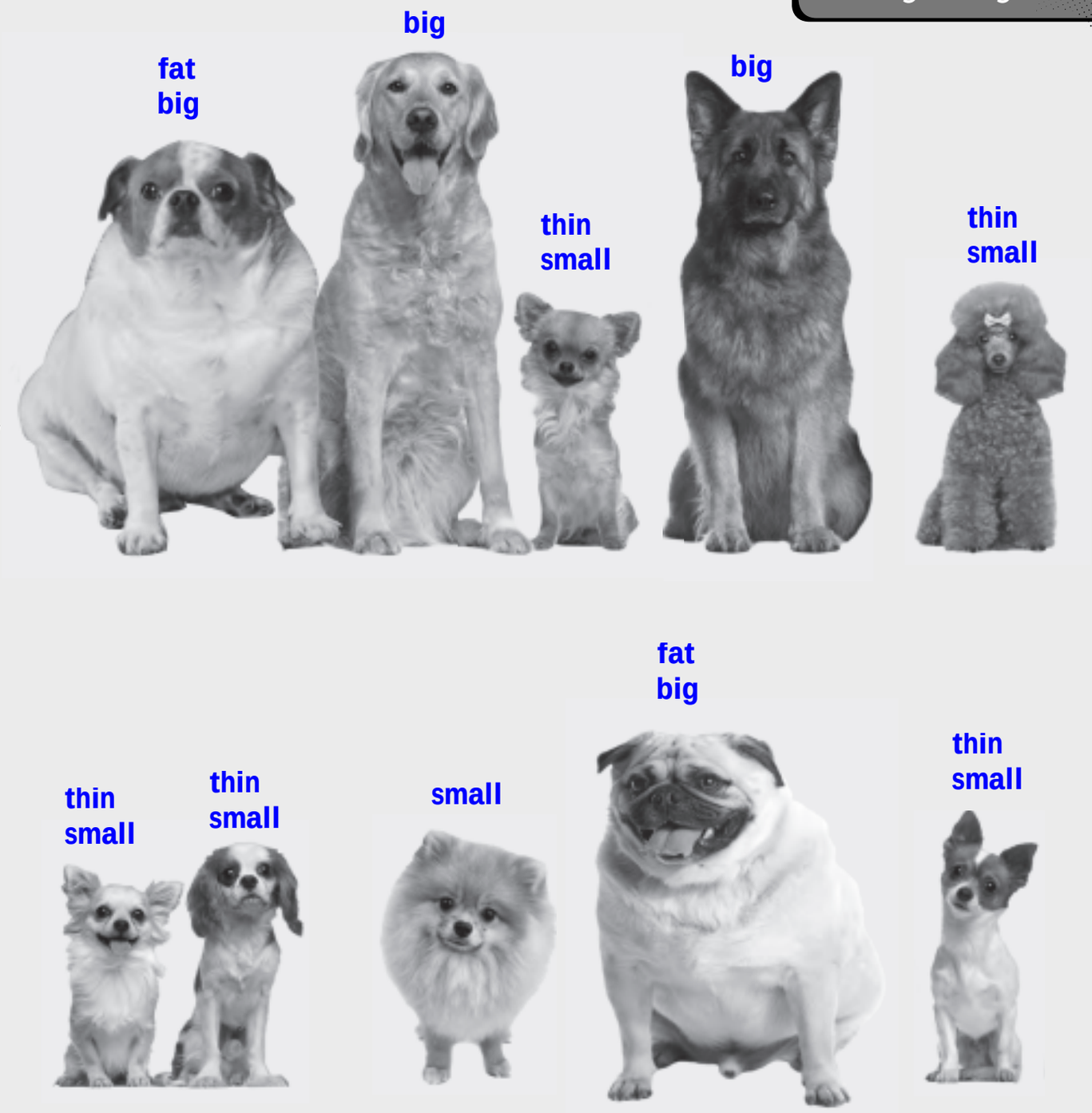
black, fat, and slow

brown, thin, and fast

cat

STEM SKILL
Interpreting and Organizing Data

Look at the dogs and fill in the chart.
How many do you see of each?



big	small	thin	fat
4	6	5	2

STEM SKILL
Predicting

Which animal will win the race?

1 horse



2 dog







3 rabbit







STEM SKILL
Drawing Conclusions

Circle the best vehicle to use to transport the animal(s).

van

a



big truck

car

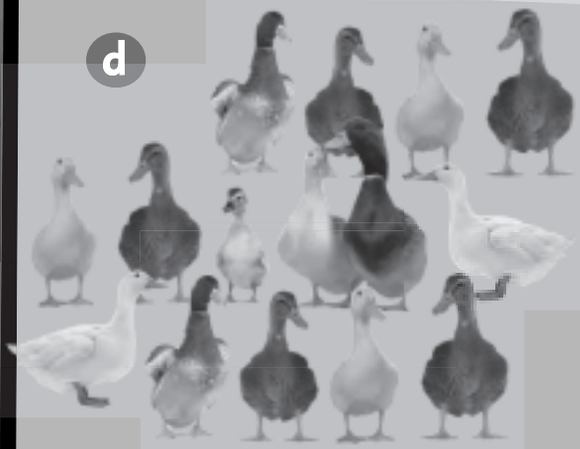
b



c



d



LESSON 12

STEM SKILL
Classifying

Sort the items by usage.

1. ~~cup~~
2. chopsticks
3. plate
4. backpack
5. straw
6. spoon
7. bag
8. bottle
9. fork



eat

2 3 6 9



drink

1 5 8



carry

4 7 8

STEM SKILL
Interpreting and Organizing Data

Look at the picture. Count the items and complete the chart by coloring one square for each item.

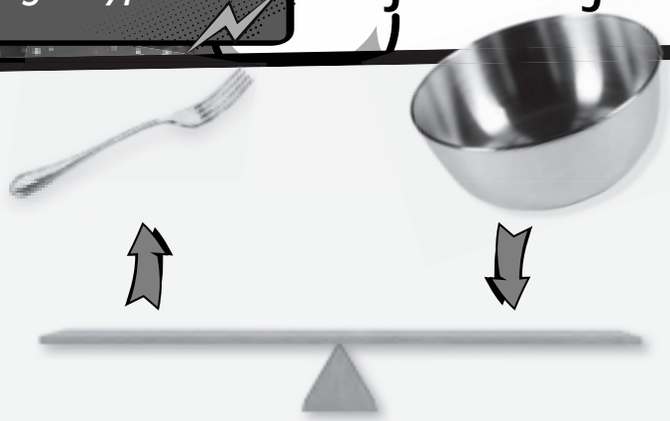
								Total
Ex.								6
	■	■	■					3
	■	■	■	■	■			5
	■	■						2
	■	■	■	■	■	■	■	7
	■	■	■					3
	■	■	■	■				4



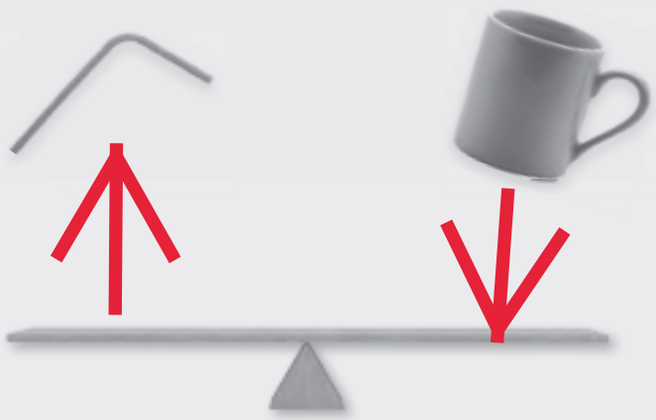
STEM SKILL
Making a Hypothesis

Which is heavier? Use arrows to show which direction each object will go.

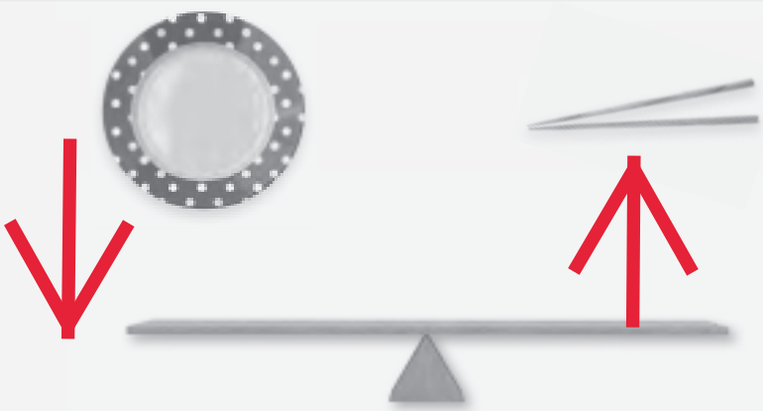
Ex.



a



b



c



STEM SKILL
Interpreting and Organizing Data

Sort the objects from lightest to heaviest.



straw | spoon | cup | bowl





YOU DID IT!!

AMAZING JOB!

CERTIFICATE OF COMPLETION

THIS AWARD IS PRESENTED TO

for doing a wonderful job. Keep up the great work!

TEACHER

DATE