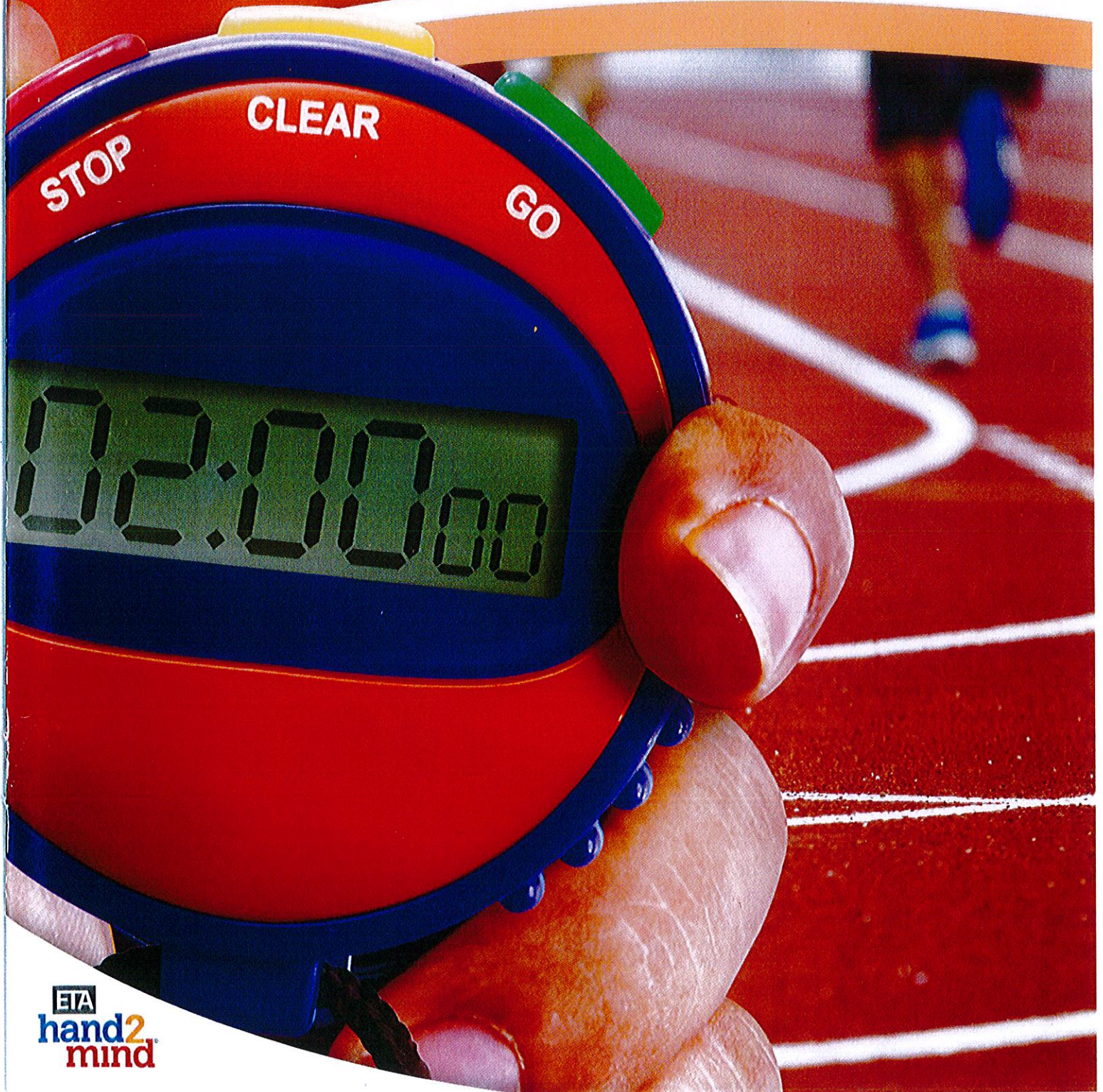




Measurement and Data

Length, Time, and Analysis

Math



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VersaTiles® Measurement and Data: Length, Time, and Analysis, Grade 1

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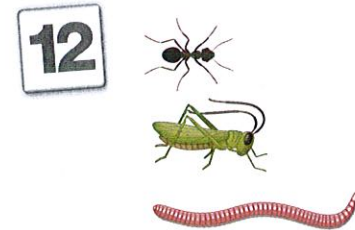
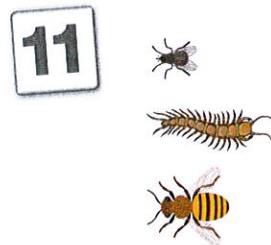
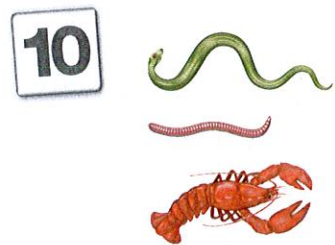
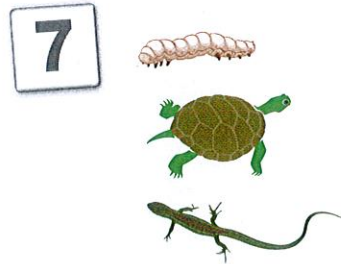
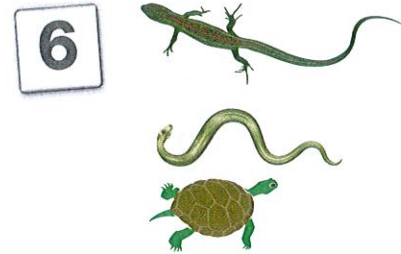
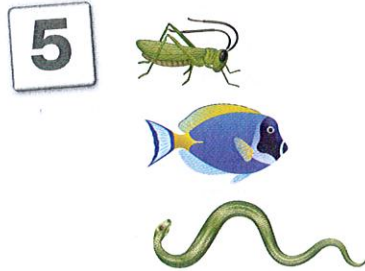
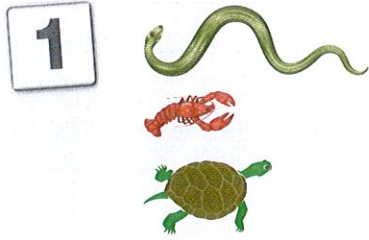
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16 17 18 19 20 21 22 9 8 7 6 5 4 3 2 1

Can You See the Shortest?

Which is shortest?

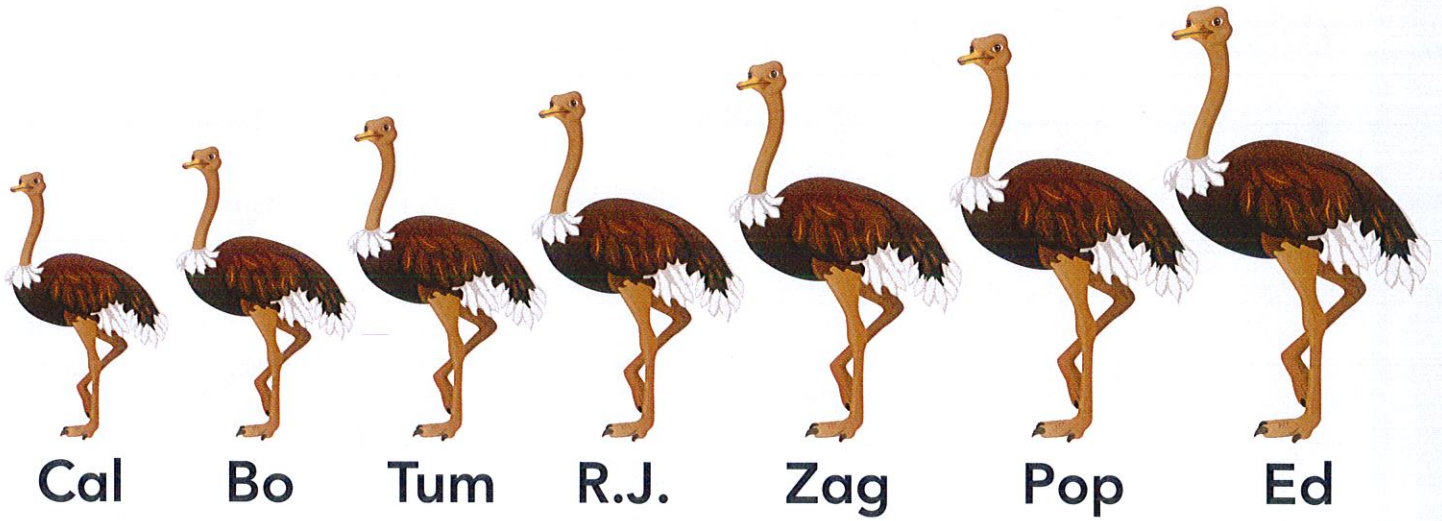


A	B	C	D	E	F
G	H	I	J	K	L

Objective: Identify the shortest object.



Am I Shorter?



Who is shorter?

- 1 Ed or Cal
- 2 R.J. or Pop
- 3 R.J. or Tum
- 4 Bo or Zag
- 5 Zag or Pop
- 6 Ed or Pop



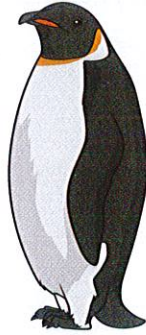
Zin



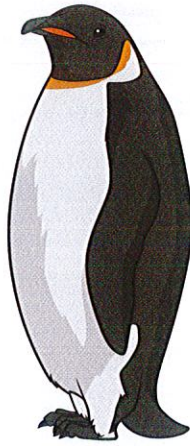
Pax



Raz



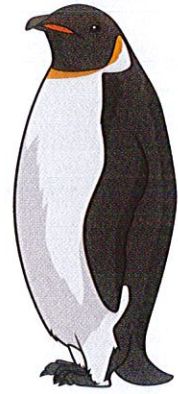
Sun



Web



Flo



Jam

Who is shorter?

7 Pax or Raz

8 Zin or Sun

9 Jam or Web

10 Web or Flo

11 Pax or Sun

12 Sun or Jam

A	B	C	D	E	F
Jam	Tum	Cal	Bo	R.J.	Pop
Zag	Pax	Raz	Flo	Sun	Zin
G	H	I	J	K	L

Objective: Identify the shorter object.



Am I Longer?



Gup

Dot

Wog

Tad

Rin

Sap

Jo

Who is longer?

1

Jo or Sap

2

Gup or Rin

3

Dot or Gup

4

Wog or Dot

5

Rin or Sap

6

Tad or Wog



Wax



Dep



Vib



Hum



Zee



Mum



Lil

Who is longer?

7

Wax or Dep

8

Dep or Hum

9

Lil or Zee

10

Vib or Dep

11

Zee or Wax

12

Mum or Lil

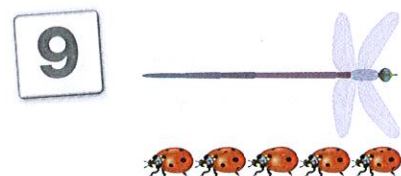
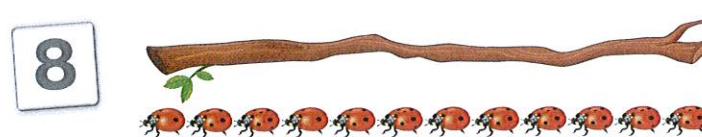
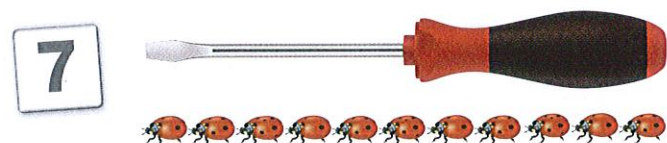
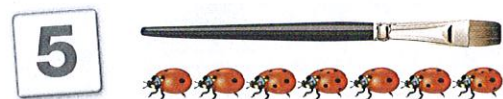
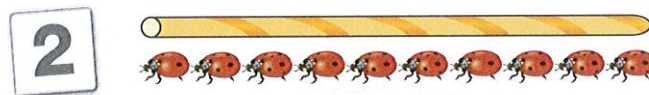
A	B	C	D	E	F
Wog	Jo	Dot	Lil	Tad	Rin
Vib	Wax	Zee	Sap	Hum	Mum
G	H	I	J	K	L

Objective: Identify the longer object.



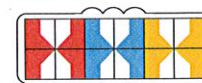
Measuring Length

How many long is it?



A	B	C	D	E	F
4	7	12	6	8	11
5	1	10	3	2	9
G	H	I	J	K	L

Objective: Count nonstandard units to find the length of an object.



Looking for the Longest



Wagon



Van



Skate



Trike



Car



Raft



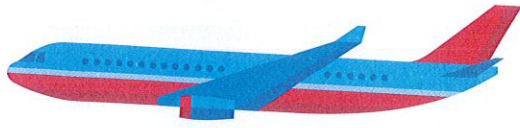
Bike



Canoe

Which is longest?

- 1** bike, canoe, or wagon **2** trike, wagon, or skate
- 3** raft, car, or van **4** skate, bike, or raft
- 5** wagon, bike, or trike **6** car, canoe, or bike



Plane



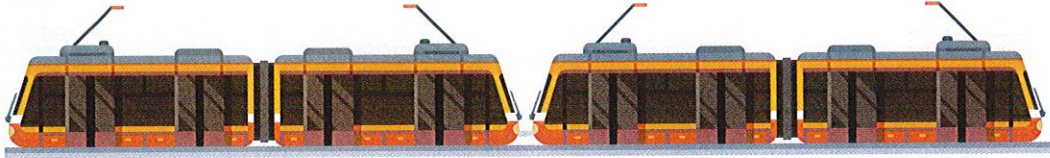
Cart



Taxi



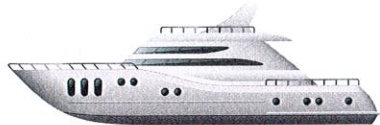
Truck



Train



Bus



Boat



Barge

Which is longest?

7 truck, taxi, or cart

8 barge, truck, or boat

9 taxi, cart, or bus

10 boat, barge, or train

11 cart, truck, or boat

12 bus, plane, or truck

A	B	C	D	E	F
barge	plane	train	truck	boat	bike
wagon	car	canoe	raft	bus	van
G	H	I	J	K	L

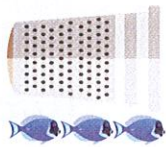
Objective: Identify the longest object.



How Long?

How many long is it?

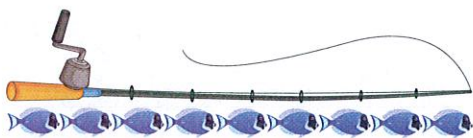
1



2



3



4



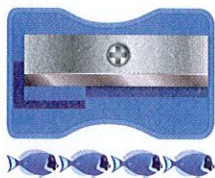
5



6



7



8



9



10



11



12



A

B

C

D

E

F

5

9

3

2

12

11

7

8

4

1

6

10

G

H

I

J

K

L

Objective: Count nonstandard units to find the length of an object.



Let's Tell time

What time is it?

1



o'clock

2



o'clock

3



o'clock

4



o'clock

5



o'clock

6



o'clock

7



o'clock

8



o'clock

9



o'clock

10



o'clock

11



o'clock

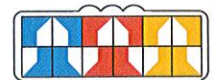
12



o'clock

A	B	C	D	E	F
7	8	5	6	1	2
10	11	3	9	12	4
G	H	I	J	K	L

Objective: Tell time to the hour using an analog clock.



More Time

What time is it?

1



2



3



4



5



6



7



8



9



10



11



12



A

B

C

D

E

F

10 o'clock

9 o'clock

7 o'clock

6 o'clock

1 o'clock

12 o'clock

8 o'clock

2 o'clock

4 o'clock

5 o'clock

11 o'clock

3 o'clock

G

H

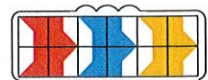
I

J

K

L

Objective: Tell time to the hour using an analog clock.



Time Flies!

Example

What time is it?

4:00

The time is 4 o'clock.

What time is it?

1

1:00

o'clock

2

6:00

o'clock

3

8:00

o'clock

4

11:00

o'clock

5

10:00

o'clock

6

4:00

o'clock

7

9:00

o'clock

8

12:00

o'clock

9

7:00

o'clock

10

3:00

o'clock

11

2:00

o'clock

12

5:00

o'clock

A

B

C

D

E

F

10

2

9

3

5

12

7

8

1

11

6

4

G

H

I

J

K

L

Objective: Tell time to the hour using a digital clock.



What Time Is It?

Example

What time is it?



It is half
an hour past
3 o'clock.

So, the time is half past 3. This is also called 3:30.

What time is it?

1



2



3



4



5



6



7



8



9



10



11



12



A

B

C

D

E

F

8:30

3:30

7:30

5:30

11:30

12:30

half
past 9

half
past 1

half
past 10

half
past 4

half
past 6

half
past 2

G

H

I

J

K

L

Objective: Tell time to the half-hour using an analog clock.



Half Past the Hour



What time is it?

1



2



3



4



5



6



7



8



9



10



11

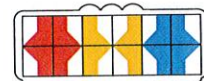


12



A	B	C	D	E	F
12:30	7:30	9:30	4:30	1:30	11:30
10:30	5:30	3:30	2:30	8:30	6:30
G	H	I	J	K	L

Objective: Tell time to the half-hour using an analog clock.



Another Half-Hour

What time is it?

1

2:30

2

7:30

3

12:30

4

6:30

5

10:30

6

4:30

7

3:30

8

11:30

9

1:30

10

8:30

11

9:30

12

5:30

A

B

C

D

E

F

half
past 6

half
past 2

half
past 4

half
past 7

half
past 12

half
past 1

half
past 3

half
past 8

half
past 5

half
past 11

half
past 10

half
past 9

G

H

I

J

K

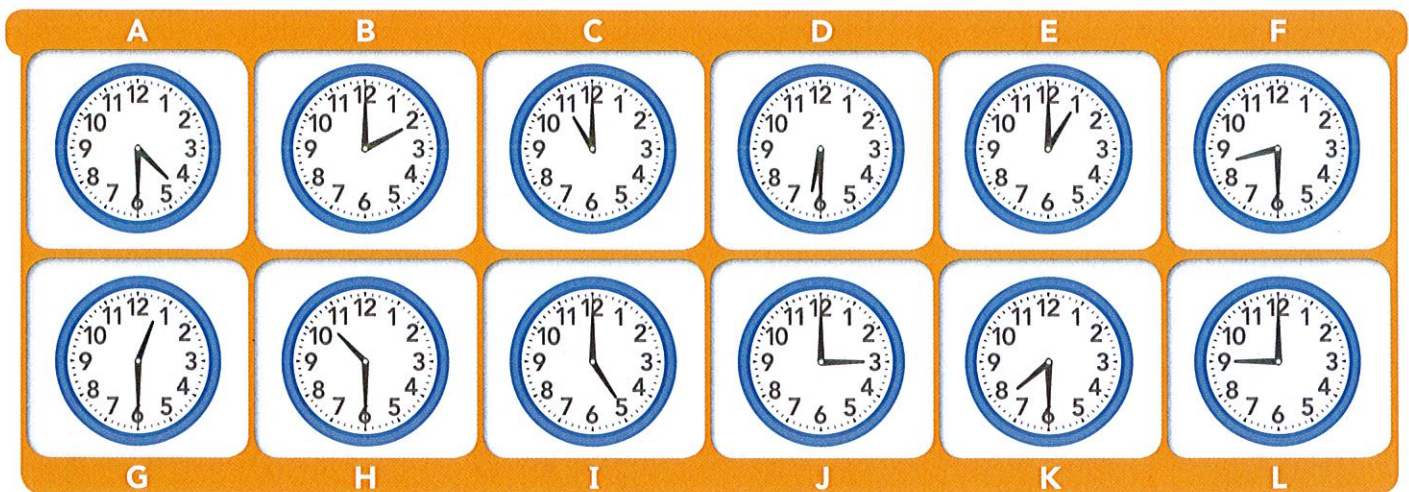
L

Objective: Tell time to the half-hour using a digital clock.



Let's Match!

Find the clock that shows the same time.



Objective: Match time on an analog clock to the hour and the half-hour to time on a digital clock.



How Many Students?

Children at Emerson School	
Grade	Number of Students
Grade K	18
Grade 1	20
Grade 2	26
Grade 3	23
Grade 4	16
Grade 5	25

How many students are in:

1 Grade 1?

2 Grade 4?

3 Grade 2?

4 Grade K?

5 Grade 5?

6 Grade 3?

Which has more students?

7 Grade 1 or Grade 2

8 Grade K or Grade 1

9 Grade K or Grade 4

Which has fewer students?

10 Grade 3 or Grade 5

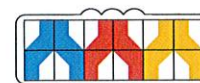
11 Grade 4 or Grade 3

12 Grade 2 or Grade 5

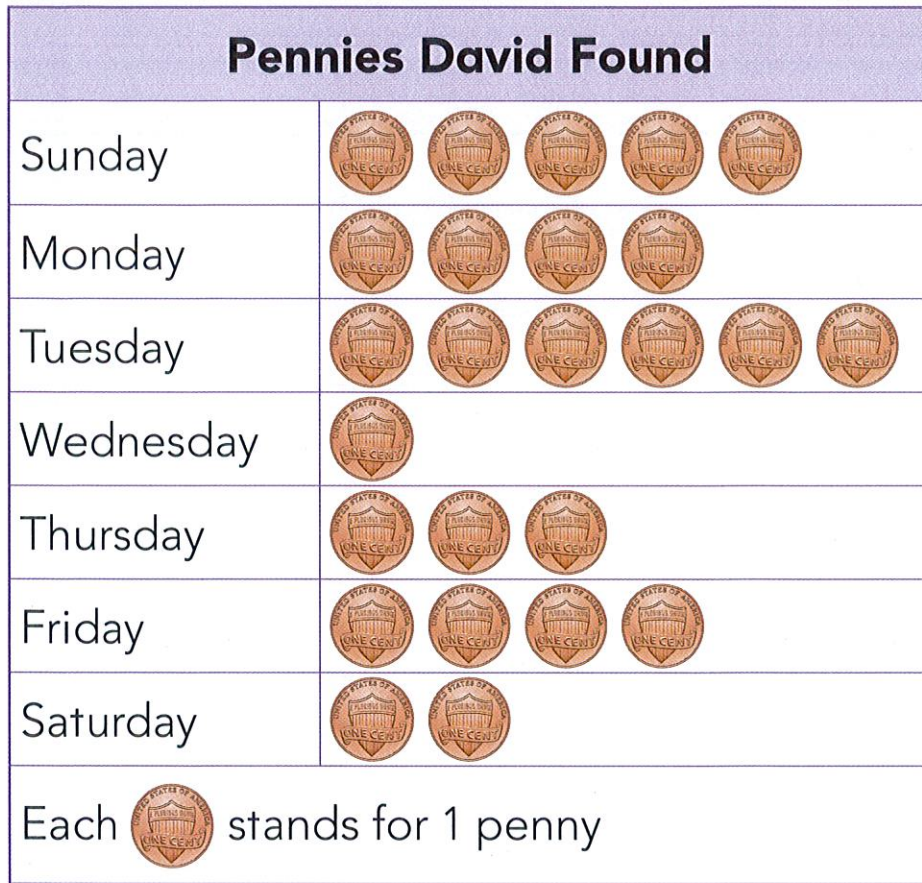


A	B	C	D	E	F
Grade 1	Grade 5	Grade 4	25	Grade 3	Grade 2
23	16	26	Grade K	18	20
G	H	I	J	K	L

Objective: Read and interpret data given in a table.



Read a Pictograph



Tip

This graph shows how many pennies David found each day.

How many pennies did David find on:

- 1 Thursday?
- 2 Friday?
- 3 Sunday?
- 4 Wednesday?
- 5 Friday and Saturday?
- 6 Tuesday and Wednesday?

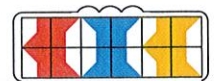
On what day did David find:

- 7 the most pennies?
- 8 2 pennies?
- 9 the same number of pennies he found on Monday?
- 10 more pennies, Thursday or Saturday?
- 11 more pennies, Monday or Saturday?
- 12 4 more than he found on Wednesday?



A	B	C	D	E	F
6	Friday	7	4	Tuesday	3
5	Monday	Sunday	Saturday	1	Thursday
G	H	I	J	K	L

Objective: Solve a problem by reading and interpreting a pictograph.



Who Is the Winner?

Soccer Games	
Team	Number of Games Won
Team A	10
Team B	12
Team C	8
Team D	9
Team E	11

How many games did the team win?

- 1** Team A
- 2** Team D
- 3** Team B
- 4** Team E

Who won more games?

- 5** Team C or Team D
- 6** Team E or Team A
- 7** Team D or Team A
- 8** Team B or Team E

How many more games did:

- 9** Team B win than Team A?
- 10** Team E win than Team C?
- 11** Team B win than Team C?
- 12** Team E win than Team A?

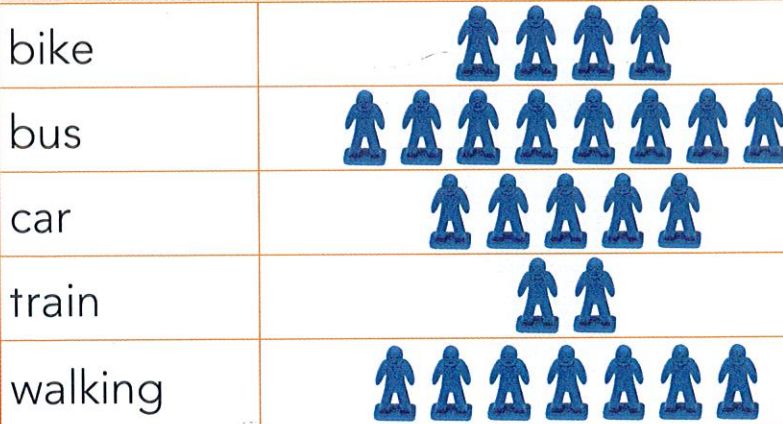
A	B	C	D	E	F
11	10	4	Team D	Team E	9
Team A	3	12	2	1	Team B
G	H	I	J	K	L

Objective: Read and interpret data given in a table.



Trip Talk

How We Get to School



Each  stands for 1 child.

Tip

More children get to school by bus than by car.

How many children get to school by:

- | | | | |
|-------------------|------------------------|-----------------------|-----------------------|
| 1 car? | 2 train? | 3 bike? | 4 bus? |
| 5 walking? | 6 bus or train? | 7 bike or bus? | 8 car or bike? |

Do more children get to school by:






- | | | | |
|------------------------|---------------------------|------------------------|--------------------------|
| 9 train or bus? | 10 walking or car? | 11 bike or car? | 12 bike or train? |
|------------------------|---------------------------|------------------------|--------------------------|

A	B	C	D	E	F
10	2	5	12	4	bus
G	H	I	J	K	L
9	bike	walking	8	car	7

Objective: Read and interpret a pictograph.



Stickers Everywhere!

Kate's Stickers			
			
car	dog	flower	star
Each  stands for 1 sticker.			

How many:

- 1** dog stickers?
- 2** star stickers?
- 3** car stickers?
- 4** flower stickers?
- 5** car and flower stickers?
- 6** dog and star stickers?

- 7** car and star stickers?
- 8** more dog than flower stickers?
- 9** more dog than car stickers?
- 10** fewer star than dog stickers?



Are there more:

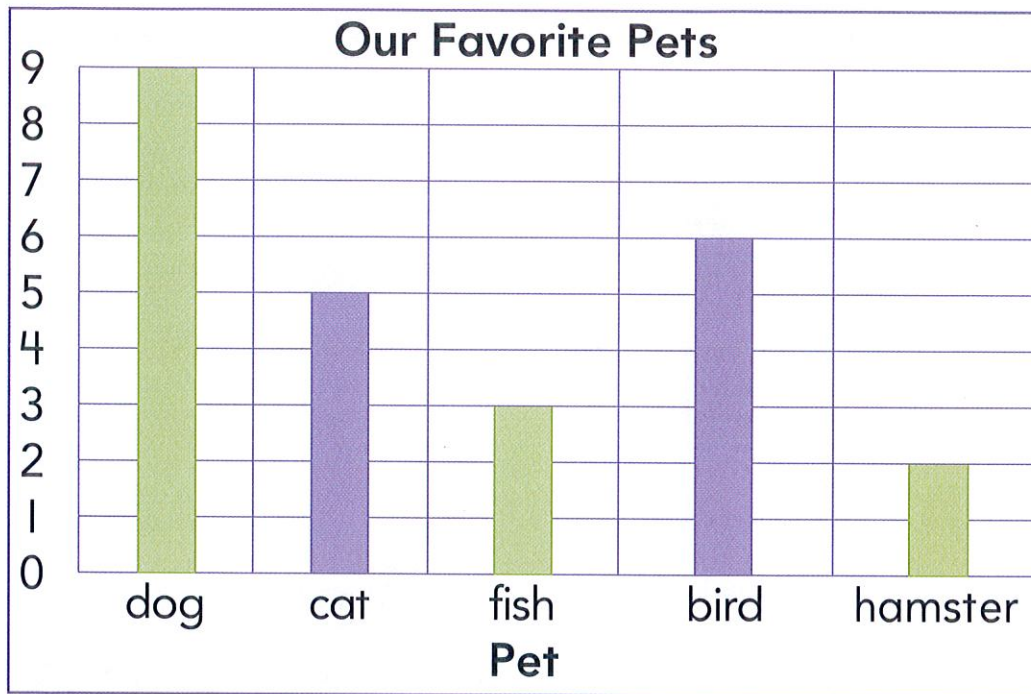
- 11** flower or car stickers?
- 12** dog or car stickers?

A	B	C	D	E	F
8	7	dog	3	6	car
4	5	2	9	10	1
G	H	I	J	K	L

Objective: Read and interpret a pictograph.



Favorite Pets



How many people voted for:

1 hamsters?

2 fish?

3 birds?

4 cats?



Did more people vote for:

- 5** fish or cats?
- 6** cats or birds?
- 7** hamsters or fish?
- 8** dogs or birds?

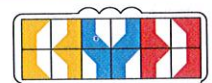
How many:

- 9** people voted for dogs or birds?
- 10** people voted for cats or dogs?
- 11** more people voted for birds than hamsters?
- 12** more people voted for birds than cats?

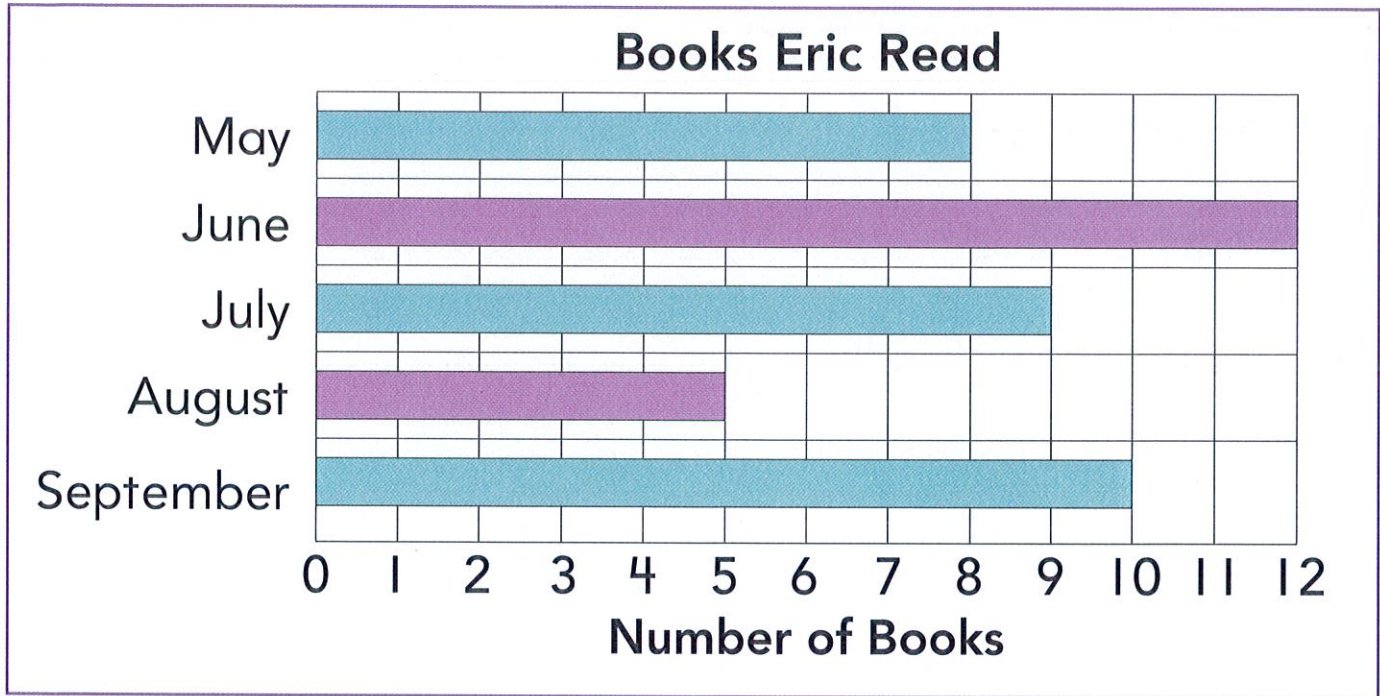


A	B	C	D	E	F
2	fish	1	dogs	4	6
14	5	3	birds	15	cats
G	H	I	J	K	L

Objective: Read and interpret a vertical bar graph.



Summer Reading



How many books did Eric read in:

- 1** July?
- 2** August?
- 3** June?
- 4** September?
- 5** May and July?
- 6** July and August?
- 7** August and September?
- 8** July and September?

Did Eric read more books in:

9 July or September?

10 July or May?

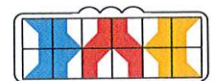
11 May or August?

12 September or June?

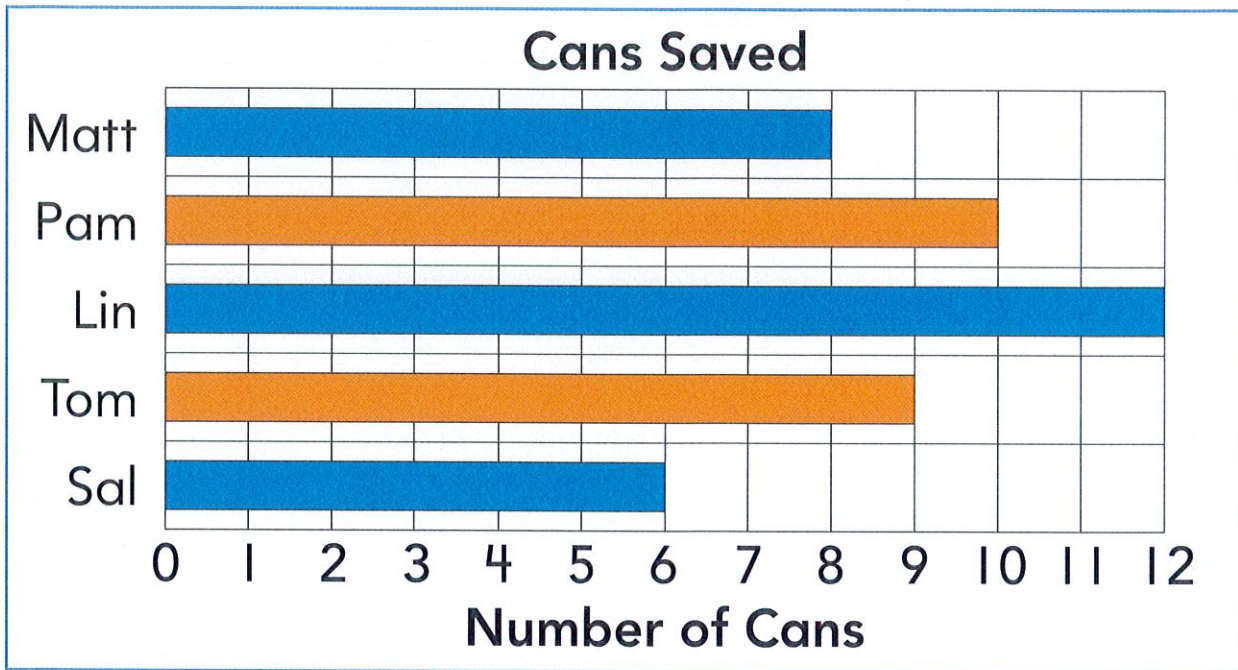


A	B	C	D	E	F
14	19	May	17	15	9
June	5	12	September	10	July
G	H	I	J	K	L

Objective: Read and interpret a horizontal bar graph.



Collecting Cans



How many cans did they save?

- 1** Pam
- 2** Tom
- 3** Lin
- 4** Matt

Who saved more cans:

- 5** Matt or Tom?
- 6** Lin or Pam?
- 7** Matt or Sal?
- 8** Pam or Tom?

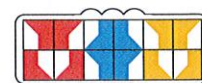
Find how many:

- 9** more cans Pam saved than Sal.
- 10** more cans Lin saved than Tom.
- 11** cans Matt and Sal saved in all.
- 12** cans Tom and Sal saved in all.

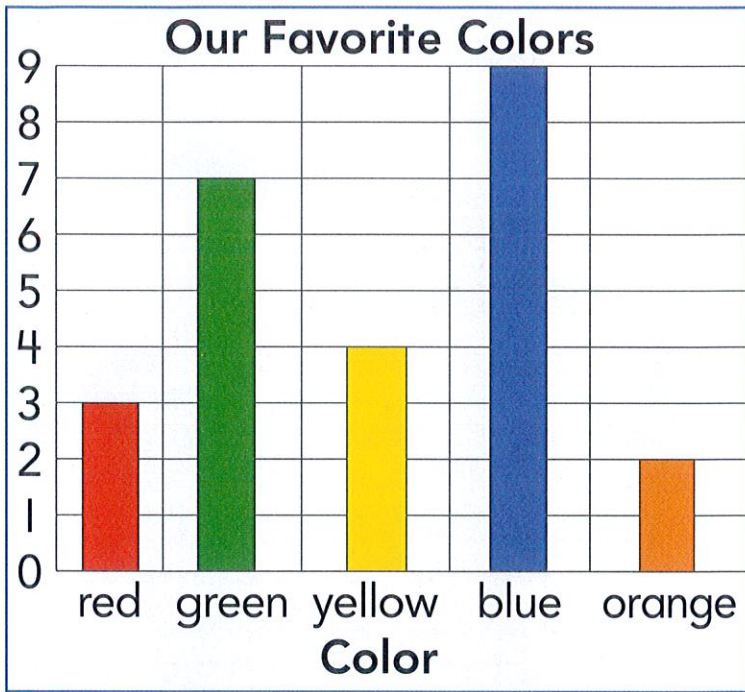


A	B	C	D	E	F
4	12	15	Pam	10	8
Tom	14	Lin	9	Matt	3
G	H	I	J	K	L

Objective: Read and interpret a horizontal bar graph.



World of Colors



How many people picked: _____

- 1** red?
- 2** yellow?
- 3** green?
- 4** blue?

Did more people pick:

- 5** green or yellow?
- 6** orange or red?
- 7** yellow or red?
- 8** green or blue?

How many people picked:

- 9** green or red?
- 10** blue or red?
- 11** blue or yellow?
- 12** yellow or green?

A	B	C	D	E	F
10	7	3	9	red	4
green	13	12	yellow	blue	11
G	H	I	J	K	L

Objective: Read and interpret a vertical bar graph.



Four simple steps to success with VersaTiles®.

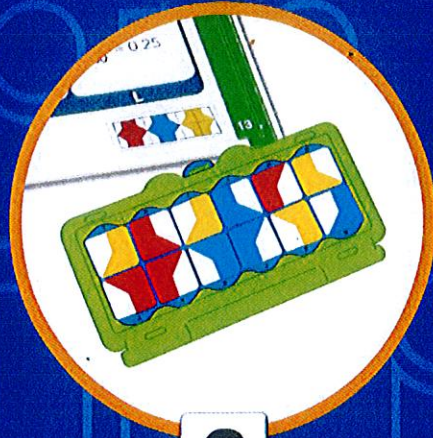
Grade

1



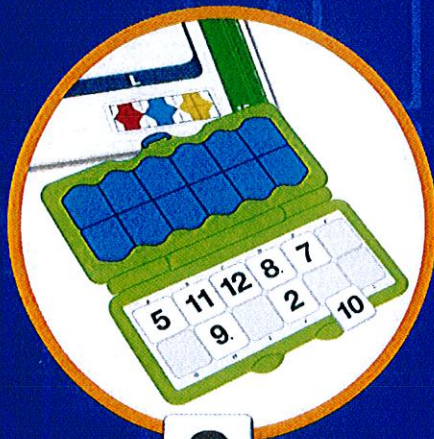
1

Answer questions



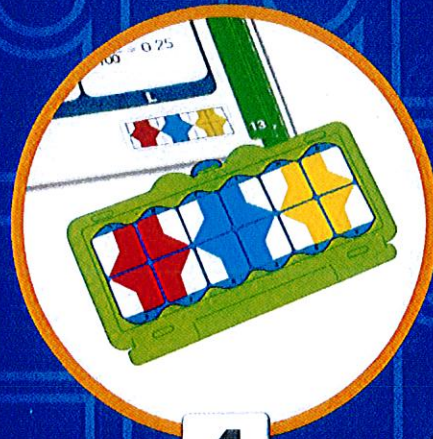
2

Flip and check



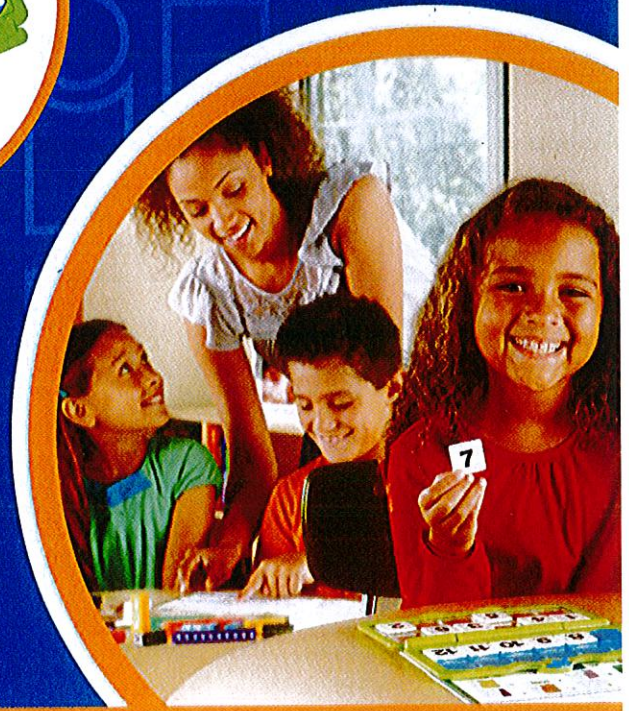
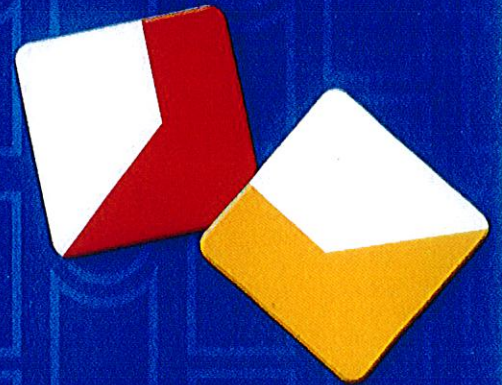
3

Open and self-correct



4

Match



Did you know...

- There are over 2,300 different answer patterns.
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