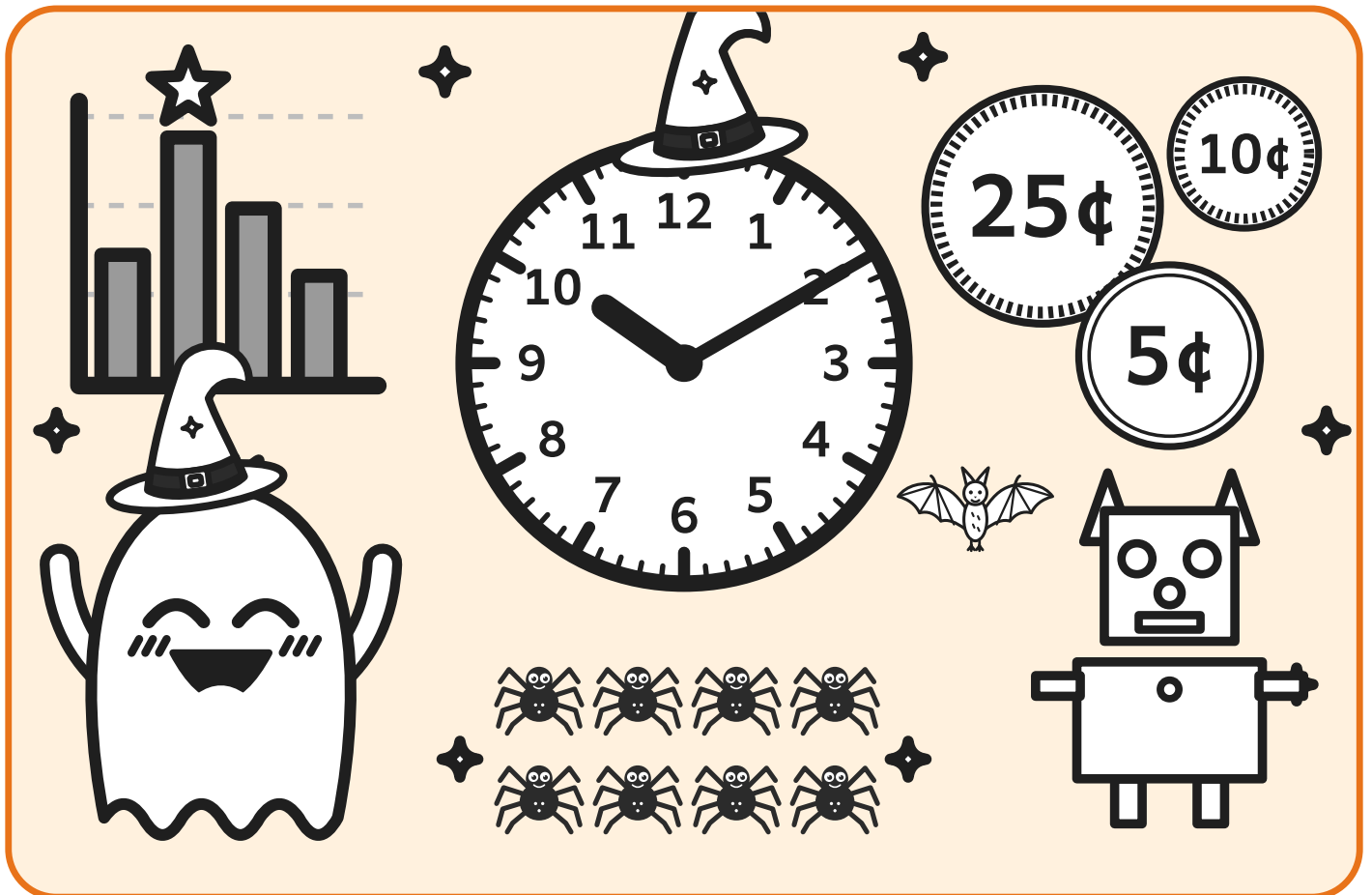


Halloween

Math Pack: Time, Money and Data

Five gentle, not-scary math worksheets about clocks, coins, charts, shapes and arrays, each with three levels. Teacher notes and answer keys are included.



1 Costume Parade Clocks
Hours, half hours and 5 minutes

2 Pumpkin Patch Shop
Count coins and solve shop problems

3 Favorite Costume Tally
Tally charts, pictograms, bar graphs

4 Shape Monsters
2-D shapes, 3-D shapes and riddles

5 Spider-Leg Arrays
Rows, columns and equal groups

6 Teacher notes and answer key
Standards, tips and answers

☆☆☆ Starter ★★☆☆ Medium ★★★★★ Challenge
Ages 6-8 • Grades 1-2

Change The World With Karyn
changetheworldwithkaryn.com

Teacher and parent notes

Halloween Math Pack: Time, Money and Data · Ages 6–8 · Grades 1–2

Hello, and happy Halloween! These five worksheets practice math that children use every day: telling time, counting coins, reading charts and graphs, naming shapes and counting things in rows. Everything is gentle, with friendly ghosts and helpful bats, and no candy or treats. Each worksheet has three levels, so one pack suits a mixed-ability class or a family with children of different ages. Enjoy the chat as much as the answers.

With magic, Karyn

What is in the pack

#	Worksheet	☆☆☆ Starter	★★☆ Medium	★★★ Challenge
1	Costume Parade Clocks Time	Read and draw o'clock and half past.	Read to 5 minutes. Quarter hours. A.m. and p.m.	Time later. Draw the hands.
2	Pumpkin Patch Shop Money	Count coins to 30¢. Need or want?	Count mixed coins. Shop problems.	Fewest coins, change from \$1, a budget.
3	Favorite Costume Tally Data	Count tally marks. Shade a pictogram.	Read a bar graph with four bars.	Make a bar graph, then compare.
4	Shape Monsters Shapes	Count and name 2-D shapes. Draw a monster.	Sides and corners. Quadrilaterals.	3-D shapes and real things.
5	Spider-Leg Arrays Arrays	Count rows and columns. Add the rows.	Addition sentences. Turn an array.	Equal groups of 8. Draw 5 by 5 arrays.

Choosing a level

Starter has big pictures and small numbers. Medium reads times to five minutes and reads a bar graph. Challenge adds time later, change from \$1, drawing a bar graph and equal groups. Print the level each child needs, or let them try the next star up when they are ready.

Tips for using the worksheets

- **Start with real things.** Move the hands of a real clock, count real or play coins, take a class vote, and build arrays with counters before the page.
- **Say times two ways.** Say “half past 7” and “7:30” together. The short hand tells the hour and the long hand tells the minutes.
- **Coins can be tricky.** A dime is worth more than a nickel but is smaller. Count the biggest coin first, then count on.
- **Squares and rectangles.** The counts keep them separate, to keep counting simple. A square is a special rectangle, which older children may like to find out. A tilted shape is still the same shape.
- **Pip’s tips show a method, not an answer.** Pip, a little ghost, uses a different example from the page.
- **Time:** most children finish a worksheet in about 10 to 20 minutes.

Printing and accessibility

Print at 100% (“Actual size”, not “Fit to page”) on US Letter paper. Black and white is fine. Each worksheet fits on one page, so print just the levels you need. A sharp pencil helps with the drawing. The numbers are set in Andika, a typeface designed for beginning readers.

Curriculum links

A guide to where each worksheet fits. Each level covers a selection of these skills.

#	Worksheet	US Common Core	England National Curriculum (paraphrased)
1	Costume Parade Clocks	1.MD.B.3, 2.MD.C.7 Time later goes a little further	Year 1: tell the time to the hour and half past, and draw the hands. Year 2: tell and write the time to five minutes, including quarter past and quarter to, and draw the hands.
2	Pumpkin Patch Shop	2.MD.C.8 Needs and wants is extra talk	Year 1: know the value of different coins. Year 2: combine coins to make an amount, find different ways to make the same amount, and solve money problems, including change. The pack uses US coins and cents.
3	Favorite Costume Tally	1.MD.C.4, 2.MD.D.10	Year 2: interpret and construct simple pictograms, tally charts and block diagrams; answer questions by counting categories, and by totaling and comparing them.
4	Shape Monsters	1.G.A.1, 1.G.A.2, 2.G.A.1	Year 1: recognize and name common 2-D and 3-D shapes. Year 2: describe the properties of 2-D shapes (sides) and 3-D shapes (faces). A box (rectangular prism) is a cuboid in England.
5	Spider-Leg Arrays	2.OA.C.4 Challenge looks ahead to 3.OA.A.1	Year 1: solve one-step multiplication problems with objects, pictures and arrays, with help. Year 2: use arrays and repeated addition.

US codes are Common Core State Standards for Mathematics, grades 1 and 2 (MD = Measurement and Data, G = Geometry, OA = Operations and Algebraic Thinking). Some states use their own standards, so check yours. The England column paraphrases the Year 1 and Year 2 national curriculum (ages 5 to 7); please check the exact wording on gov.uk before quoting it in a plan.

Supporting and stretching

To support

- Use a real clock with moving hands. Move the short hand first.
- Keep real or play coins beside the page. Sort them by kind before counting.
- Build each array with counters first.

To stretch

- Ask “How else could you make 35¢?” and look for more than one way.
- Ask children to write their own “time later” or shop problem for a partner.
- Turn each array on its side. What stays the same?

Ideas for talking about the math

- What is your favorite time of day? Show it on a clock.
- What could you buy with 50¢ at the pumpkin patch shop? Is it a need or a want?

More from Karyn

Find more free learning resources and our free online kids’ book club at changetheworldwithkaryn.com. Watch the read-aloud stories on YouTube at [@StoryTimeWithKaryn](https://www.youtube.com/channel/UCv3v3v3v3v3v3v3v3v3v3v3) and the lessons at [@LearnWithKaryn](https://www.youtube.com/channel/UCv3v3v3v3v3v3v3v3v3v3v3).

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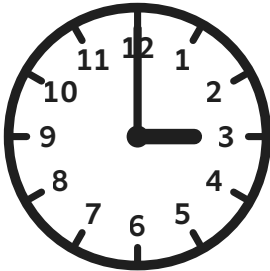


Costume Parade Clocks

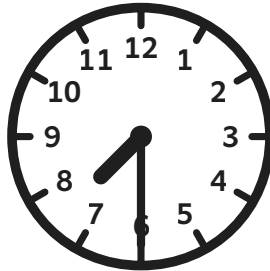
Name _____ Date _____

Part A What time does each clock show? Write the time in the box.

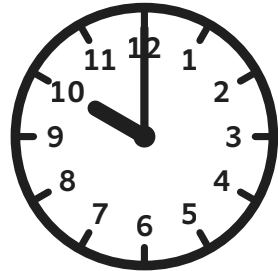
1


 :

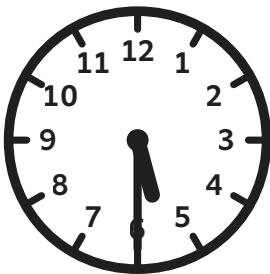
2


 :

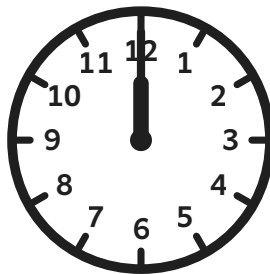
3


 :

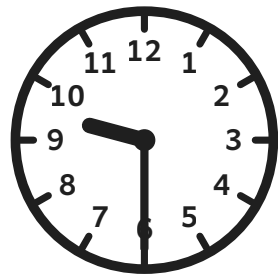
4


 :

5


 :

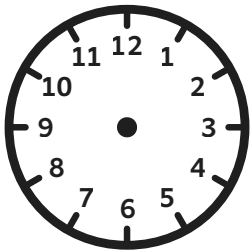
6


 :

Part B Draw the hands to show each time. The **short** hand shows the hour. The **long** hand shows the minutes.

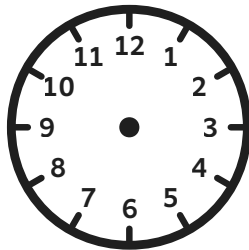
7

4:00



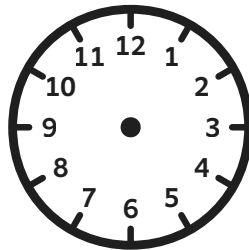
8

8:30



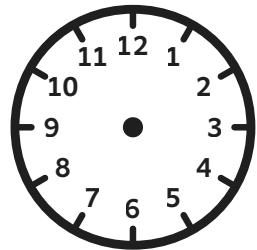
9

1:30



10

11:00



PIP'S TIP

The long hand on 12 means **o'clock**. If the short hand points to 2 and the long hand points to 12, it is 2:00. The long hand on 6 means **half past**, so it is 2:30.



Costume Parade Clocks

Name _____ Date _____

Part A What time does each clock show? Write the time in the box.

1


 :

2


 :

3


 :

4


 :

5


 :

6


 :

Part B Write each time in numbers.

7

quarter past 3

 :

8

half past 8

 :

9

quarter to 11

 :


PIP'S TIP

Quarter past 5 is 5:15. Half past 5 is 5:30. Quarter to 6 is 5:45.

Part C Is it **a.m.** or **p.m.**? Circle one. A.m. is for the morning. P.m. is for the afternoon, evening and night.

10

Pip wakes up at 7:00 in the morning.

a.m.

p.m.

11

The costume parade starts at 6:30 in the evening.

a.m.

p.m.

12

The class visits the pumpkin patch at 10:15 in the morning.

a.m.

p.m.

13

Pip goes to bed at 8:00 at night.

a.m.

p.m.



Costume Parade Clocks

Name _____ Date _____

Part A What time does each clock show? Write the time in the box.

1


 :

2


 :

3


 :

4


 :

5


 :

6


 :

Part B Look at the clock. What time will it be later?

7



The costume parade starts now. It lasts 1 hour. What time will it end?

 :

8



Pip starts a pumpkin craft now. It takes half an hour. What time will Pip finish?

 :

9



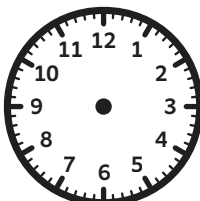
The bat story starts now. It lasts 1 hour. What time will it end?

 :

Part C Draw the hands to show each time.

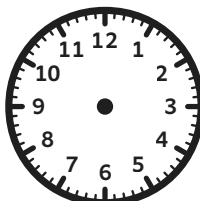
10

2:45



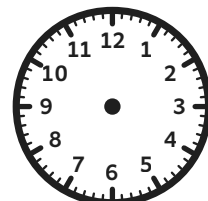
11

6:10



12

11:35





Pumpkin Patch Shop

Name _____

Date _____



penny
1¢



nickel
5¢



dime
10¢



quarter
25¢

Part A Count the coins. Write how many cents in the box.

1        ¢

2     ¢

3     ¢

4    ¢

Part B Is it a **need** or a **want**? Circle one.

5  **mittens**
need
want

6  **lantern**
need
want

7  **boots**
need
want

8  **sticker**
need
want



PIP'S TIP

A **need** is something you must have to stay warm, safe and healthy, like warm clothes. A **want** is fun to have, but you can live without it.



Pumpkin Patch Shop

Name _____

Date _____

Part A Count the coins. Write how many cents in the box.

1      ¢

2     ¢

3        ¢

Part B Use the price board to solve each problem.

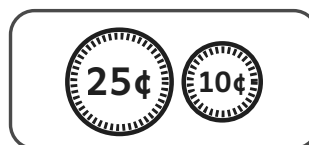
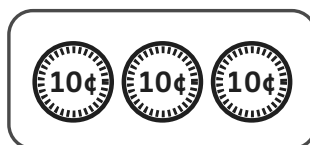
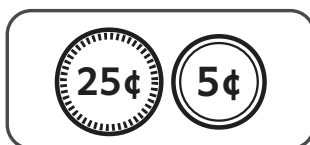
PUMPKIN PATCH SHOP					
					
mitten	scarf	lantern	toy bat	pinwheel	sticker
20¢	30¢	35¢	15¢	25¢	10¢

4 Pip buys the mittens and the toy bat. How much do they cost **together**? ¢

5 Hazel has 50¢. Hazel buys the scarf. How much money is **left**? ¢

6 How many cents **more** does the lantern cost than the pinwheel? ¢

7 Hazel pays for the scarf with exactly 30¢. Circle **both** sets of coins that make 30¢.





Pumpkin Patch Shop

Name _____

Date _____

Part A Count the coins. Write how many cents in the box.

1        ¢

2        ¢

Part B Use the **fewest coins** to make each amount. Write how many of each coin.

3 41¢ quarters dimes nickels pennies	4 65¢ quarters dimes nickels pennies	5 78¢ quarters dimes nickels pennies
---	---	---

Part C Use the price board to solve each problem.

PUMPKIN PATCH SHOP					
					
mittens	scarf	lantern	toy bat	pinwheel	sticker
20¢	30¢	35¢	15¢	25¢	10¢

6 Pip has \$1, which is 100¢. Pip buys the lantern. How much **change** does Pip get? ¢

7 Hazel buys the sticker, the mittens and the toy bat. What is the **total**? ¢

8 Pip has 45¢. Pip buys the **scarf** first, which is a need. Circle **every want** Pip can still buy with the money left.

			
lantern	pinwheel	toy bat	sticker
35¢	25¢	15¢	10¢



Favorite Costume Tally

Name _____ Date _____

Part A Count the tally marks. Write how many votes. Then **shade one circle** for each vote.

Our favorite costume	Tally	How many?	Pictogram
 Witch	/		○ ○ ○ ○ ○ ○ ○ ○ ○ ○
 Ghost			○ ○ ○ ○ ○ ○ ○ ○ ○ ○
 Black cat			○ ○ ○ ○ ○ ○ ○ ○ ○ ○

Key: 1 circle = 1 child

Part B Use the chart to answer the questions.

1 Which costume got the **most** votes? Circle it.

Witch

Ghost

Cat

2 Which costume got the **fewest** votes? Circle it.

Witch

Ghost

Cat

3 How many children voted **in all**?

--	--

4 How many **more** children chose the witch than the ghost?

--	--



PIP'S TIP

Each tally mark is one vote. Four lines with a slash across them make a group of five. Count the groups of five first, then count on.

Favorite Costume Tally

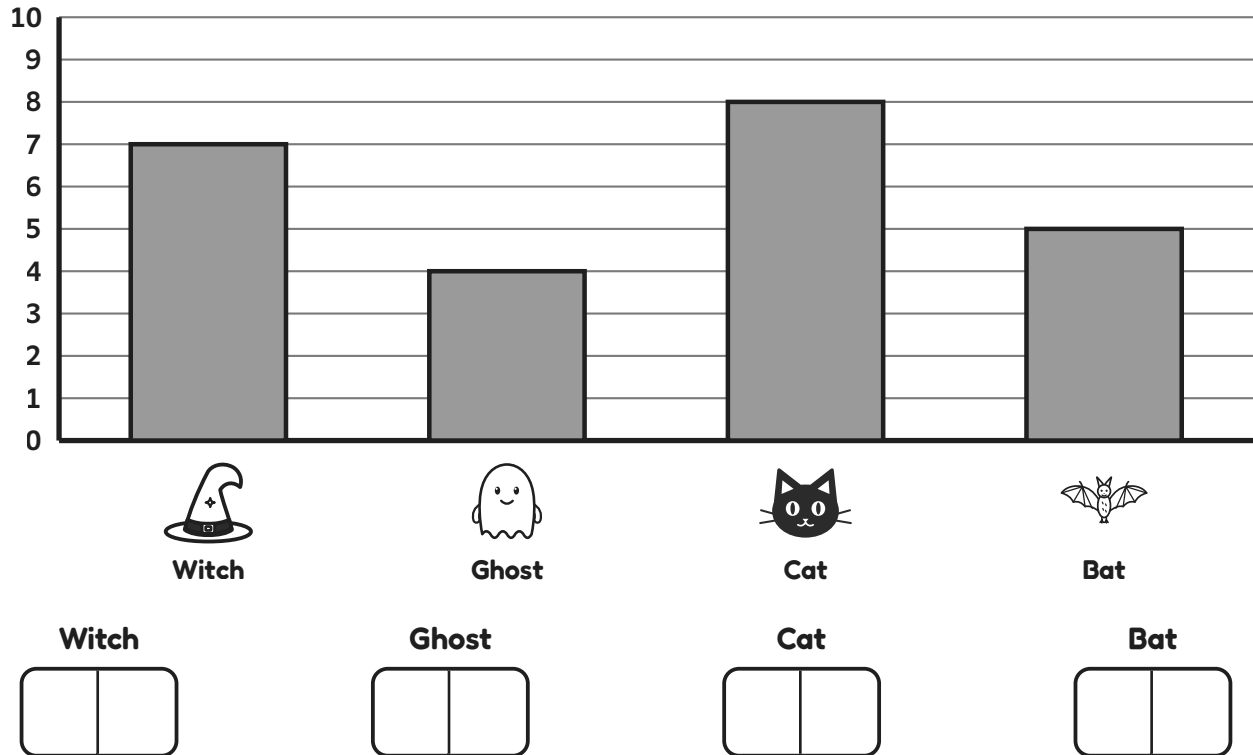


★★☆☆ Medium

Name _____

Date _____

Part A This bar graph shows **our favorite costume**. Write how many children chose each one.



Part B Use the bar graph to answer the questions.

1 Which costume got the **most** votes? Circle it.

Witch

Ghost

Cat

Bat

2 Which costume got the **fewest** votes? Circle it.

Witch

Ghost

Cat

Bat

3 How many children voted **in all**?

--	--

4 How many **more** children chose the black cat than the ghost?

--	--

5 How many children chose the witch **or** the bat?

--	--



Favorite Costume Tally

Name _____ Date _____

Part A Count the tally marks. Write how many votes each one got.



Witch



Ghost



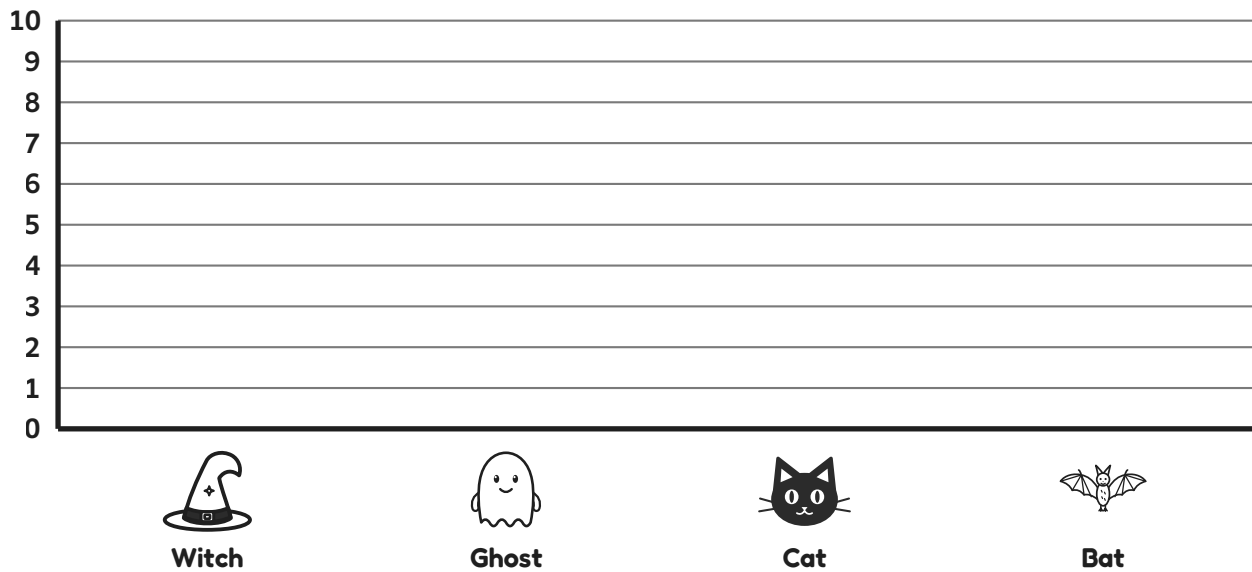
Cat



Bat



Part B Draw a bar for each one. Make each bar as tall as the number of votes.



Part C Use your bar graph to answer the questions.

- How many children voted **in all**?
- How many **more** children chose the black cat than the ghost?
- How many children chose the ghost **or** the bat?
- 2 more children choose the witch. Which costume would have the **most** votes then? Circle it.

Witch

Ghost

Cat

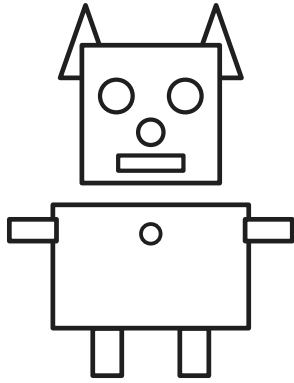
Bat



Shape Monsters

Name _____ Date _____

Part A Count the shapes in the monster. Write how many of each.



triangles



circles



squares



rectangles



Part B Which shape am I? Circle it.

1 I have 3 sides and 3 corners.



2 I have 4 sides. All 4 sides are the same length.



3 I am round. I have no corners.



4 I have 4 sides and 4 corners. Two sides are long and two are short.



Part C Draw your own monster. Use **1 circle** for the head, **2 triangles** for the ears, **1 square** for the body and **2 rectangles** for the legs.

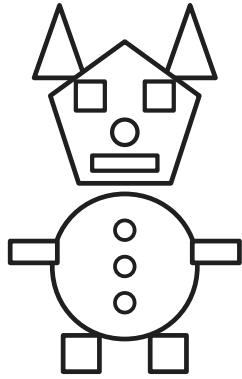
My monster



Shape Monsters

Name _____ Date _____

Part A Count the shapes in the monster. Write how many of each.



triangles



circles



squares



rectangles



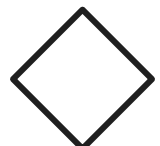
pentagons

Part B Write the name of each shape. Then count its **sides** and its **corners**.

Word bank triangle square rectangle pentagon hexagon

Shape	Name	Sides	Corners
1 	_____		
2 	_____		
3 	_____		
4 	_____		

Part C A shape with **4 sides** is a **quadrilateral**. Circle every quadrilateral.

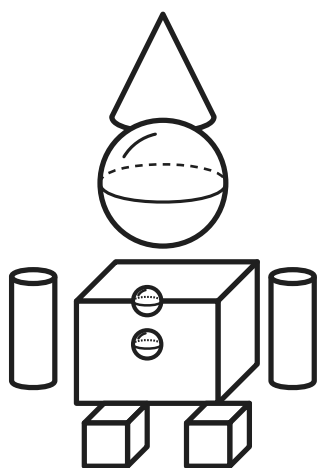




Shape Monsters

Name _____ Date _____

Part A Count the solid shapes in the monster. Write how many of each.



	cones	
	spheres	
	cubes	
	boxes rectangular prism	
	cylinders	

Part B Which solid shape am I? Write its name. Use the pictures to help.



cube



sphere



cone



cylinder



box

- 1 I have 6 flat faces. Every face is a square. _____
- 2 I am round like a ball. I have no flat faces. _____
- 3 I have 1 flat face that is a circle. I have 1 pointy tip. _____
- 4 I have 2 flat faces that are circles. I can roll and I can stack. _____

Part C What shape is each thing?

- 5 A ball is a _____
- 6 A game die is a _____
- 7 A can of paint is a _____
- 8 A witch hat is a _____



Spider-Leg Arrays

Name _____

Date _____

Part A Count the rows and the columns. Then count how many spiders in all.

1

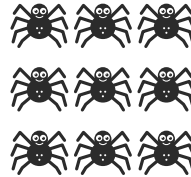


rows

columns

in all

2



rows

columns

in all

3

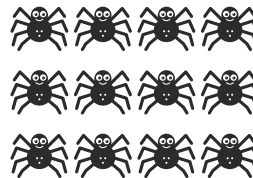


rows

columns

in all

4



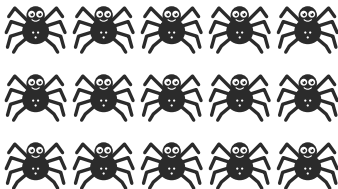
rows

columns

in all

Part B Add the rows. Write an addition sentence for each array.

5



$$\square + \square + \square = \square$$

6



$$\square + \square + \square + \square = \square$$


PIP'S TIP

Rows go across. **Columns** go down. This array has 2 rows and 3 columns. To find how many in all, add the rows: $3 + 3 = 6$.





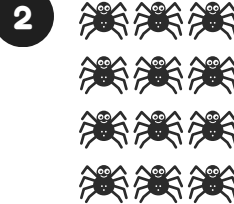
Spider-Leg Arrays

Name _____

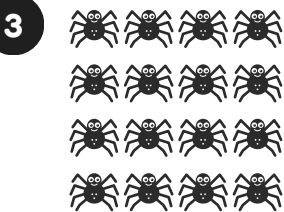
Date _____

Part A Write an addition sentence for each array. Then write the total.

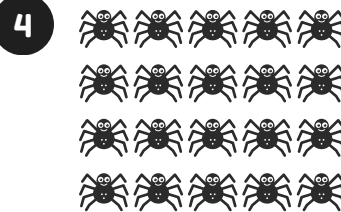

$$\square + \square + \square = \square \square$$



$$\square + \square + \square + \square = \square \square$$



$$\square + \square + \square + \square = \square \square$$



$$\square + \square + \square + \square = \square \square$$

Part B Turn the array on its side. Write an addition sentence for each one.


$$\square + \square = \square \square$$



$$\square + \square + \square + \square = \square \square$$

7 What do you notice about the two totals? Circle one.

☐ They are the same

☐ They are different

PIP'S TIP

Add the number in each row. This array has 3 rows with 2 in each row, so the addition sentence is $2 + 2 + 2 = 6$.





Spider-Leg Arrays

Name _____ Date _____

Part A Each spider has **8 legs**. Add to find how many legs in all.

1  $8 = \boxed{} \boxed{}$

2  $8 + 8 = \boxed{} \boxed{}$

3  $8 + 8 + 8 = \boxed{} \boxed{}$

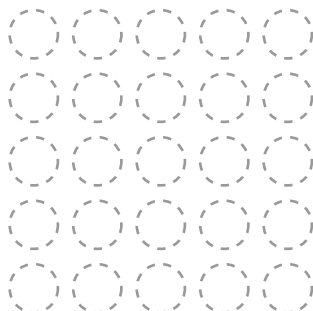
4  $8 + 8 + 8 + 8 = \boxed{} \boxed{}$

Part B Solve each problem.

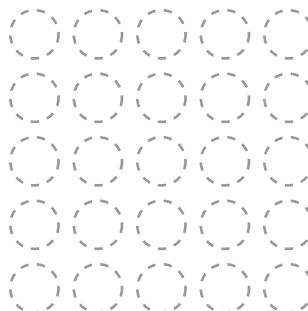
5 Each spider has 8 legs. How many legs do 5 spiders have? $\boxed{} \boxed{}$

6 Pip sees 5 rows of spiders. There are 3 spiders in each row. How many spiders? $\boxed{} \boxed{}$

Part C Draw spiders in the circles to make each array. Leave the other circles empty. Then write an addition sentence.

 7 Draw **4 rows** of **5**.


$$\boxed{} + \boxed{} + \boxed{} + \boxed{} = \boxed{} \boxed{}$$

 8 Draw **3 rows** of **4**.


$$\boxed{} + \boxed{} + \boxed{} = \boxed{} \boxed{}$$

Answer key

For teachers and parents. Accept any correct method. Times can be written as 7:30 or “half past 7”. Drawings and monsters will vary, so check that they follow the instructions.

Worksheet 1 • Costume Parade Clocks

☆☆☆ **Starter** Write the time, then draw the hands

Part A 1. 3:00 2. 7:30 3. 10:00 4. 5:30 5. 12:00 6. 9:30

Part B The short hand points to the hour. The long hand points to 12 for o'clock and to 6 for half past.



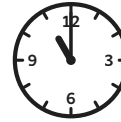
7 4:00



8 8:30



9 1:30



10 11:00

☆☆☆ **Medium** Times, words, a.m. and p.m.

Part A 1. 2:15 2. 6:45 3. 9:20 4. 11:50 5. 4:35 6. 8:10

Part B 7. quarter past 3 = 3:15 8. half past 8 = 8:30 9. quarter to 11 = 10:45

Part C 10. a.m. 11. p.m. 12. a.m. 13. p.m.

☆☆☆ **Challenge** Times, time later, draw the hands

Part A 1. 12:05 2. 3:50 3. 7:25 4. 10:55 5. 1:40 6. 5:15

Part B 7. 6:00 + 1 hour = 7:00 8. 3:30 + 30 minutes = 4:00 9. 10:30 + 1 hour = 11:30

Part C Check the hands. The short hand is close to the hour and the long hand points to the minutes.



10 2:45



11 6:10



12 11:35

Worksheet 2 • Pumpkin Patch Shop

☆☆☆ **Starter** Count the coins · need or want

Part A 1. 7¢ 2. 20¢ 3. 13¢ 4. 27¢

Part B 5. mittens: need 6. lantern: want 7. boots: need 8. sticker: want

☆☆☆ **Medium** Count the coins · use the price board

Part A 1. 51¢ 2. 65¢ 3. 42¢

Part B 4. 35¢ 5. 20¢ 6. 10¢ 7. sets 1 and 2

☆☆☆ **Challenge** Count · fewest coins · change and budget

Part A 1. 92¢ 2. 86¢

Part B 3. 41¢ = 1 quarter, 1 dime, 1 nickel, 1 penny 4. 65¢ = 2 quarters, 1 dime, 1 nickel
5. 78¢ = 3 quarters, 3 pennies

Part C 6. 65¢ 7. 45¢ 8. 15¢ left. Circle: toy bat, sticker

Worksheet 3 · Favorite Costume Tally

☆☆☆ **Starter** Tally · pictogram · questions

Part A **Witch 6 Ghost 3 Cat 4**

Shade one circle for each vote. The number of shaded circles matches the tally.

Part B **1. Witch 2. Ghost 3. 13 4. 3**

☆☆☆ **Medium** Read the bar graph

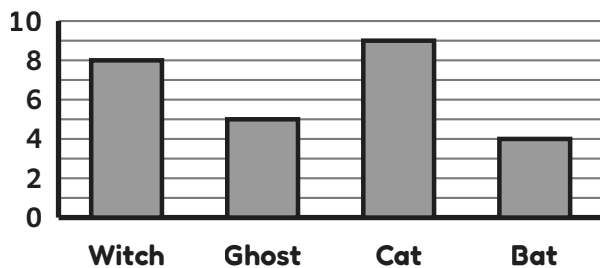
Part A **Witch 7 Ghost 4 Cat 8 Bat 5**

Part B **1. Cat 2. Ghost 3. 24 4. 4 5. 12**

☆☆☆ **Challenge** Tally, bar graph, questions

Part A **Witch 8 Ghost 5 Cat 9 Bat 4**

Part B Each bar is as tall as the number of votes.



Part C **1. 26 2. 4 3. 9 4. Witch**

Worksheet 4 · Shape Monsters

☆☆☆ **Starter** Count the shapes · riddles

Part A **triangles 2 circles 4 squares 1 rectangles 6**

Part B **1. triangle 2. square 3. circle 4. rectangle**

Part C Any monster that uses 1 circle for the head, 2 triangles for the ears, 1 square for the body, 2 rectangles for the legs.

☆☆☆ **Medium** Count · sides and corners · quadrilaterals

Part A **triangles 2 circles 5 squares 4 rectangles 3 pentagons 1**

Part B **1. pentagon, 5 sides, 5 corners 2. triangle, 3 sides, 3 corners 3. rectangle, 4 sides, 4 corners 4. hexagon, 6 sides, 6 corners**

Part C Counting from the left, circle the 2nd shape (the square), the 4th (the rectangle) and the 6th (the tilted square).

☆☆☆ **Challenge** Solid shapes · riddles · real things

Part A **cones 1 spheres 3 cubes 2 boxes 1 cylinders 2**

Part B **1. cube 2. sphere 3. cone 4. cylinder**

Part C **5. sphere 6. cube 7. cylinder 8. cone**

Worksheet 5 · Spider-Leg Arrays

☆☆☆ **Starter** Rows, columns, add the rows

Part A **1.** 2 rows, 2 columns, 4 in all **2.** 3 rows, 3 columns, 9 in all **3.** 2 rows, 5 columns, 10 in all
4. 3 rows, 4 columns, 12 in all

Part B **5.** $5 + 5 + 5 = 15$ **6.** $2 + 2 + 2 + 2 = 8$

☆☆☆ **Medium** Addition sentences · turn the array

Part A **1.** $5 + 5 + 5 = 15$ **2.** $3 + 3 + 3 + 3 = 12$ **3.** $4 + 4 + 4 + 4 = 16$ **4.** $5 + 5 + 5 + 5 = 20$

Part B **5.** $4 + 4 = 8$ **6.** $2 + 2 + 2 + 2 = 8$ **7.** They are the same.

☆☆☆ **Challenge** Equal groups · word problems · draw arrays

Part A **1.** $8 = 8$ **2.** $8 + 8 = 16$ **3.** $8 + 8 + 8 = 24$ **4.** $8 + 8 + 8 + 8 = 32$

Part B **5.** 40 legs **6.** 15 spiders

Part C **7.** 4 rows of 5: $5 + 5 + 5 + 5 = 20$ **8.** 3 rows of 4: $4 + 4 + 4 = 12$