Please do NOT tear out pages!

Unit 6 Study Links Packet

Name_____

<u>Students and Parents</u>: Attached is the packet of Study Links for this math unit. Complete <u>only</u> the assigned Study Link for homework. The assigned Study Link will be noted in the planner of your go-home folder. Please do not take apart the packet.

Due Date:	Parent Initial:	
_____	_____	*Study Link 6-1 Multiplication/Division Number Stories
_____	_____	Study Link 6-2 Equal-Grouping Division Problems
_____	_____	*Study Link 6-3 Division
_____	_____	*Study Link 6-4 Interpreting Remainders
_____	_____	Study Link 6-5 Treasure Hunt *(Practice)
_____	_____	*Study Link 6-6 Measuring Angles
_____	_____	*Study Link 6-7 Measuring Angles with a Protractor
_____	_____	*Study Link 6-8 Coordinate Grids
_____	_____	Study Link 6-9 Latitude and Longitude *(Practice)
_____	_____	*Study Link 6-10 Division

<u>Parents</u> : When the study link is done and you have gone over it with your child (answer key is in pink family letter), please initial the blank next to the completed link. When you see an * by the Study Link, this signals that concepts on the assignment are going to be assessed at the end of the unit. If there is an * by the Study Link number and your child struggled with the concepts on the Study Link, be sure to keep practicing the concepts in preparation for the unit assessment.

<u>th Grade Students</u> - Be responsible. Once you get a parent's initials, put the packet (do not tear off sheets) in your go-home folder so it comes back to school the next day. The packet will be checked in as a classroom assignment!

Unit 6

Lesson 6.1, 6.2, 6.3

- Solve division number stories, write a number model, and interpret remainders.
- Solve multiplication number stories

Lesson 6.4

- Divide multi-digit numbers by 1 digit divisors and express remainders as fractions

Lesson 6.5

- Classify and measure angles

Lesson 6.8

- Plot points on a coordinate grid

Review Objectives

- Identify a true number sentence by inserting parentheses. (ex. 15/5*3=1…15/(5*3) =1)
- Round numbers up to the nearest million

Name Date Time

STUDY LINK 6•1

Multiplication/Division Number Stories

SRB 178A 178B

Fill in each diagram. Write a number model with a variable for the unknown. Then solve and write a summary number model.

1. Trung wants to rearrange his collection of 72 animals on a shelf in his room. How many equal rows of 9 animals can he make?

rows	animals per row	total animals

Number model with unknown: _____

Answer: _____ Summary number model: _____

2. An average porcupine has about 30,000 quills. About how many quills would 4 porcupines have?

porcupines	quills per porcupine	total quills

Number model with unknown: _____

Answer: _____

Summary number model: _____

3. There are 168 calculators for the students at Madison School. A box holds 8 calculators. How many boxes are needed to hold all of the calculators?

boxes	calculators per box	total calculators

Number model with unknown: _____

Answer: _____ Summary number model: _____

Practice

4. _____ = 6.17 + 8.77 **5.** _____ = 12.13 − 4.44

Name _____ Date _____ Time _____

STUDY LINK 6•2

Equal-Grouping Division Problems

For Problems 1–3, fill in the multiples-of-10 list if it is helpful. If you prefer to solve the division problems in another way, show your work.

1. The community center bought 228 juice boxes for a picnic. How many 6-packs is that?

10 [6s] = _____ Number model with unknown: _____

20 [6s] = _____ Answer: _____ 6-packs

30 [6s] = _____ Summary number model: _____

40 [6s] = _____

50 [6s] = _____

2. There are 8 girls on each basketball team. There are 184 girls in the league. How many teams are there?

10 [8s] = _____ Number model with unknown: _____

20 [8s] = _____ Answer: _____ teams

30 [8s] = _____ Summary number model: _____

40 [8s] = _____

50 [8s] = _____

3. How many 3s are in 142?

10 [3s] = _____ Number model with unknown: _____

20 [3s] = _____ Answer: _____

30 [3s] = _____ Summary number model: _____

40 [3s] = _____

50 [3s] = _____

Practice

4. _____ = 661 * 4 **5.** 13 * 96 = _____ **6.** _____ = 59 * 82

Name Date Time

STUDY LINK 6·3

Division

1. Bernardo divided a bag of 83 marbles evenly among five friends and himself. How many marbles did each get?

Number model with unknown:

_____

Answer: _____ marbles

How many marbles are left over?

_____ marbles

Summary number model:

_____

2. The carnival committee has 360 small prizes to share equally with 5 carnival booths. How many prizes will each booth get?

Number model with unknown:

_____

Answer: _____ prizes

How many prizes are left over?

_____ prizes

Summary number model:

_____

3. $4\overline{)91}$ Answer: _____

4. 427 / 8 Answer: _____

Practice

5. _____ = 34.96 + 1.58

6. _____ = 300.2 + 2.378

7. 43.27 − 12.67 = _____

8. 74.6 − 31.055 = _____

Name _____ Date _____ Time _____

STUDY LINK 6•4

Interpreting Remainders

1. Mrs. Patel brought a box of 124 strawberries to the party. She wants to divide the strawberries evenly among 8 people. How many strawberries will each person get?

Picture:

Number model with unknown:

_____

Answer: _____ strawberries

Summary number model:

_____

What did you do about the remainder? Circle the answer.

A. Ignored it

B. Reported it as a fraction or decimal

C. Rounded the answer up

Why? _____

_____

_____

2. Mr. Chew has a box of 348 pens. He asks Maurice to divide the pens into groups of 16. How many groups can Maurice make?

Picture:

Number model with unknown:

_____

Answer: _____ groups

Summary number model:

_____

What did you do about the remainder? Circle the answer.

A. Ignored it

B. Reported it as a fraction or decimal

C. Rounded the answer up

Why? _____

_____

_____

Practice

3. $68 \div 7 =$ _____

4. _____ $= 74 \div 4$

5. $\frac{468}{9} =$ _____

6. $3\overline{)95} =$ _____

Name Date Time

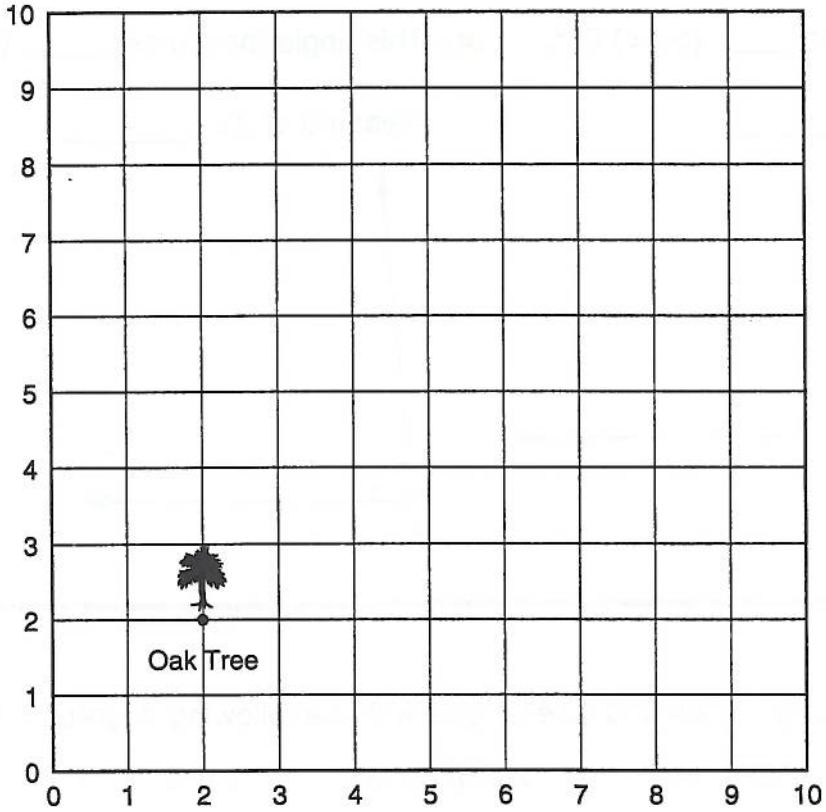
STUDY LINK 6•5

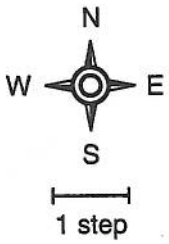
Treasure Hunt

SRB 107

Marge and her friends are playing Treasure Hunt. Help them find the treasure. Follow the directions. Draw the path from the oak tree to the treasure. Mark the spot where the treasure is buried.

1. Start at the dot under the oak tree; face north. Walk 4 steps.
2. Make a quarter turn, clockwise. Walk 5 steps.
3. Face south. Walk 2 steps.
4. Face east. Walk $2\frac{1}{2}$ steps.
5. Make a $\frac{3}{4}$ turn, clockwise. Walk 5 steps.
6. Make a $\frac{3}{4}$ turn, clockwise. Walk $6\frac{1}{2}$ steps.
7. Make an X to mark the spot where you end.





Practice

8. 88 ÷ 3 = _____
9. _____ = 71 ÷ 6
10. _____ = 603 / 7
11. 934 / 5 = _____

Name _____ Date _____ Time _____

STUDY LINK 6•6

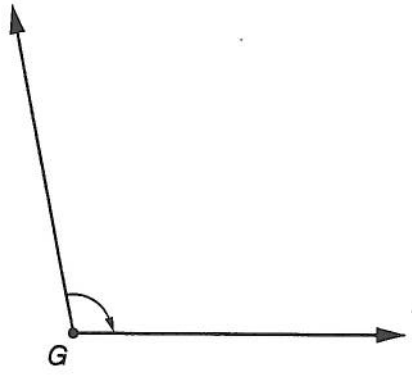
Measuring Angles

SRB 141 142

First estimate and then use your full-circle protractor to measure each angle.

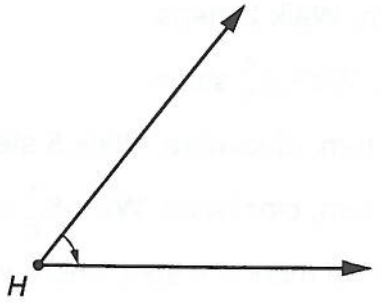
1. This angle measures _____ (>, <) 90°.

measure of ∠*G*: _____ °



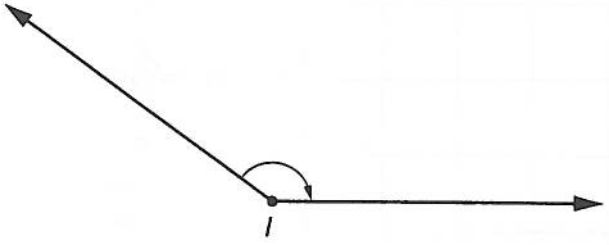
2. This angle measures _____ (>, <) 90°.

measure of ∠*H*: _____ °



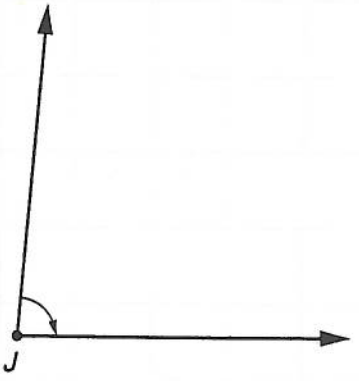
3. This angle measures _____ (>, <) 90°.

measure of ∠*I*: _____ °



4. This angle measures _____ (>, <) 90°.

measure of ∠*J*: _____ °



Try This

5. On the back of this page, draw and label angles with the following degree measures:

∠*ABC* 78° ∠*DEF* 145° ∠*GHI* 213° ∠*JKL* 331°

Practice

6. _____ = 96 ÷ 4

7. 66 ÷ 8 = _____

8. _____ = 314 ÷ 2

9. 928 ÷ 5 = _____

Name Date Time

STUDY LINK 6•7

Measuring Angles with a Protractor

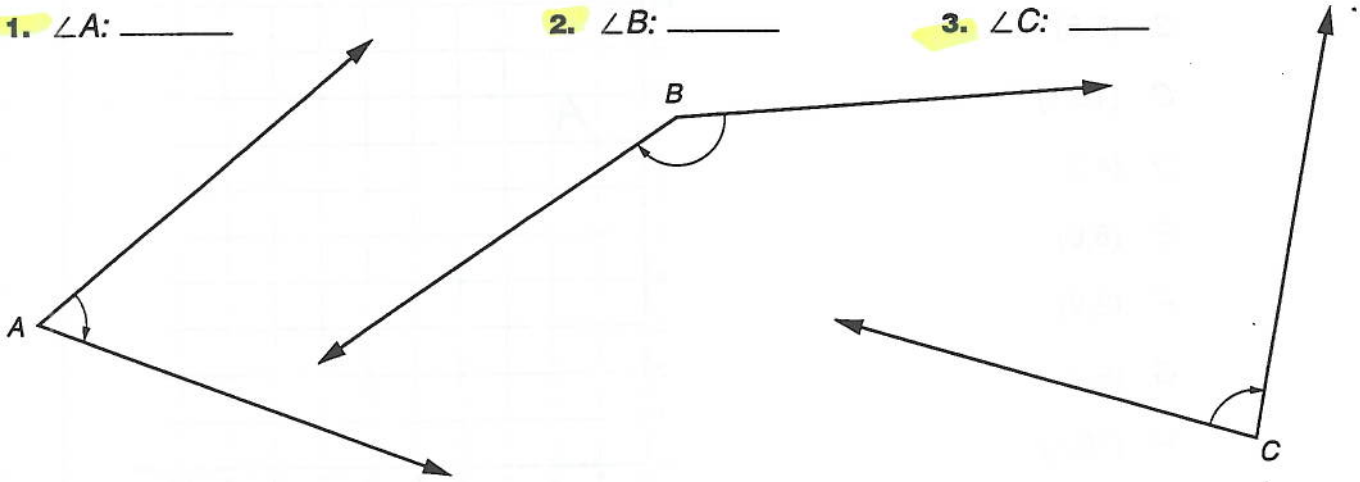
First estimate whether the angles measure more or less than 90°. Then use a half-circle protractor to measure them.

SRB 143

1. ∠*A*: _____ °

2. ∠*B*: _____ °

3. ∠*C*: _____ °

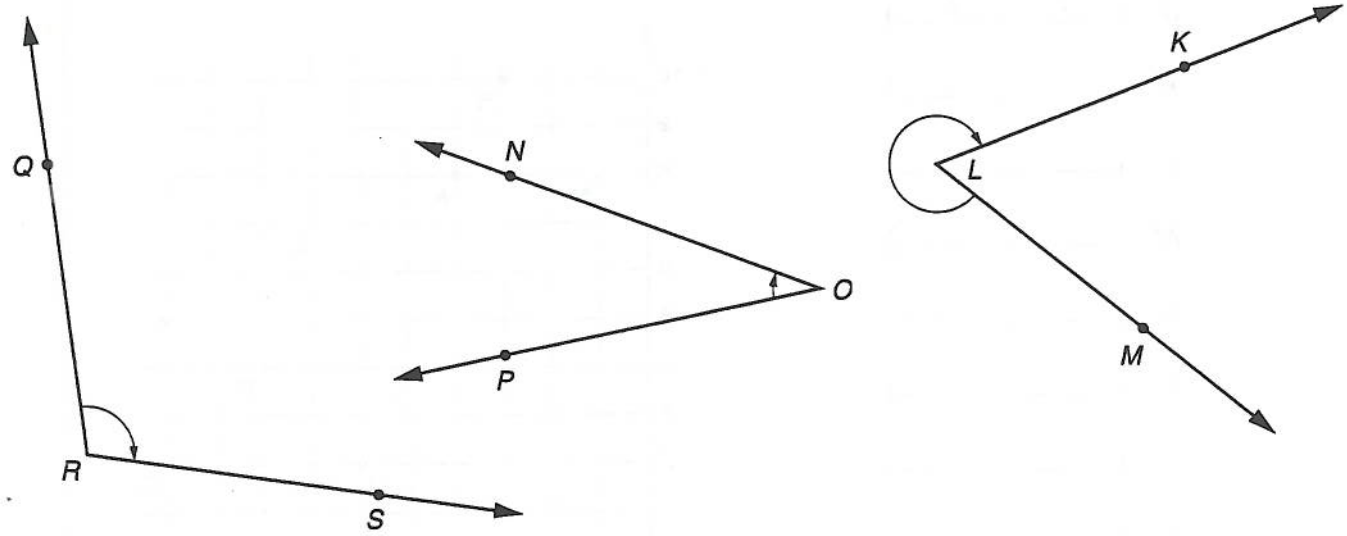


Try This

4. ∠*QRS*: _____ °

5. ∠*NOP*: _____ °

6. ∠*KLM*: _____ °



Practice

7. 93 * 6 = _____

8. _____ = 547 * 7

9. _____ = 48 * 39

10. 51 * 64 = _____

Name Date Time

STUDY LINK 6·8

Coordinate Grids

SRB 144

1. Plot and label each point on the coordinate grid.

A (1,7)

B (6,6)

C (10,1)

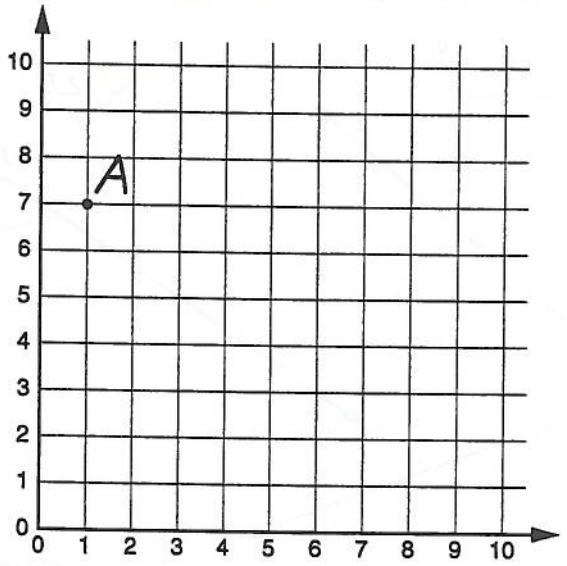
D (4,3)

E (8,6)

F (2,9)

G (9,1)

H (10,4)



2. Write the ordered number pair for each point plotted on the coordinate grid.

I (5, 3)

J (7, 2)

K (____, ____)

L (____, ____)

M (____, ____)

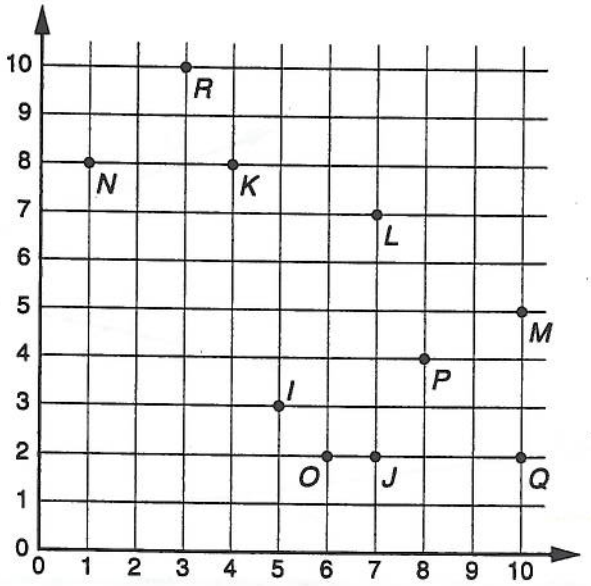
N (____, ____)

O (____, ____)

P (____, ____)

Q (____, ____)

R (____, ____)



Practice

3. 28 * 7 = _____

4. 304 * 5 = _____

5. _____ = 52 * 89

6. _____ = 43 * 36

Name Date Time

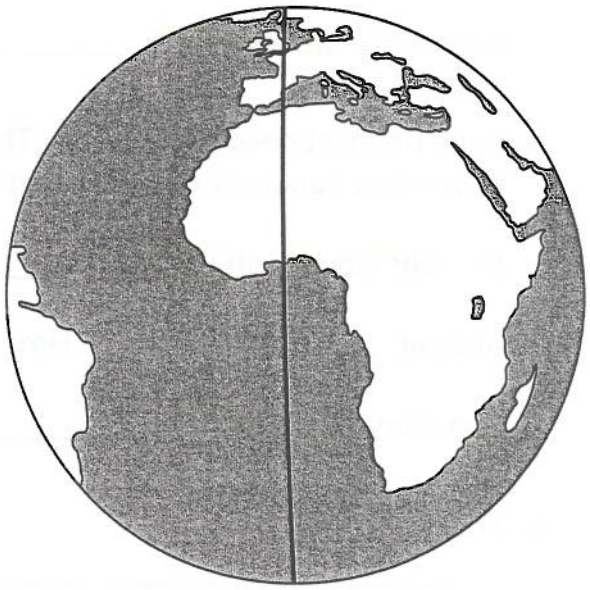
STUDY LINK 6•9

Latitude and Longitude

Use your *Student Reference Book* to help you complete this Study Link. Read the examples and study the figures on pages 272 and 273.

SRB 272 273

1. Do the following on the picture of the world globe.



a. Label the North and South Poles.

b. Draw and label the equator.

c. Label the prime meridian.

d. Draw and label a line of latitude that is north of the equator.

e. Draw and label a line of longitude that is west of the prime meridian.

f. Mark a point that is in the Southern Hemisphere and also in the Eastern Hemisphere. Label the point *A*.

g. Mark a point that is in the Northern Hemisphere and also in the Western Hemisphere. Label the point *B*.

2. The entire continent of Africa is shown in the figure above. Is Africa mostly in the Western Hemisphere or in the Eastern Hemisphere?

_____

3. Do the equator and prime meridian meet over water or over land? _____

Practice

4. _____ = 47 / 3

5. $7\overline{)98}$ _____

6. 217 ÷ 5 = _____

7. _____ = 804 / 6

Name Date Time

STUDY LINK 6•10

Division

1. It takes 14 oranges to make a small pitcher of juice. Annette has 112 oranges. How many pitchers of juice can she make?

Number model with unknown: _____

Answer: _____ pitchers How many oranges are left over? _____ oranges

Summary number model: _____

2. Each bouquet needs 17 flowers. The florist has 382 flowers in his store. How many bouquets can the florist make?

Number model with unknown: _____

Answer: _____ bouquets How many flowers are left over? _____ flowers

Summary number model: _____

3. 726 ÷ 16 = _____

4. $4\overline{)276}$ _____

Practice

5. 45 * 4 = _____

6. _____ = 319 * 7

7. _____ = 29 * 63

8. 89 * 183 = _____