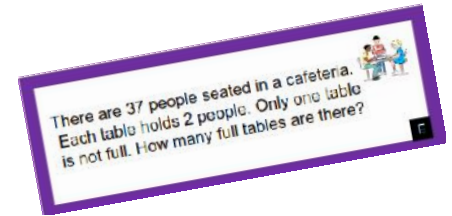# Interpreting Remainders

Materials: Interpreting Remainders word problem cards

_____

1. Solve the *Interpreting Remainders* word problems.
    For each card:
    a) write a division equation to represent the problem
    b) answer the question in a complete sentence
    c) indicate how you interpreted the remainder. Did you:
    - round up to the next whole number?
    - ignore the remainder and use only the whole number?
    - use a fraction or decimal?
    - use the remainder as your answer?

2. Check your work using the Answer Key.

Books are on sale for $7.00. Peter has $30.00 in his wallet. How many books can he buy?

A

Mr. Smith gave his four children $30.00 to share equally. How much money did each child get?

B

There are 32 students in a 4th grade class. Each table in the classroom seats 6 students. How many tables will be needed?

C

Meg cuts a 42 meter length of ribbon into 4 equal pieces. What is the length of each piece of ribbon?

D

There are 37 people seated in a cafeteria. Each table holds 2 people. Only one table is not full. How many full tables are there?

E

Lia charges an hourly rate for babysitting. During the summer vacation she works 8 hours babysitting and earns $84.00. How much does Lia charge per hour?

F

Kate baked 84 muffins. If each muffin tray held 9 muffins, how many trays did Kate use?

G

There are 56 students in a school's Swimming Club. How many relay teams of 6 can the students make?

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H

A teacher places 55 books onto shelves. Each shelf holds 9 books. How many shelves does the teacher fill?

I

A farmer packs 46 apples into trays for market. Each tray holds 6 apples. How many apples are in the partially filled tray?

J

62 fourth grade students are going on a field trip to the museum and will travel by car. If each car holds 4 students, how many cars will be needed?

K

Tom used 21 meters of fabric to make 6 large flags. How much fabric did he use for each flag?

L

Mrs. Jones orders pizzas for a class party. Each pizza will be cut into 8 slices. There will be 36 people at the party. How many pizzas should Mrs. Jones order so that each person can have one slice?

M

Five friends decide to share the cost of a skateboard equally. The skateboard costs $87.00. How much will each friend need to pay?

N

A factory packed 85 teddy bears into large boxes for delivery to a toy store. Each large box held 9 teddy bears. The remaining bears were packed in a small box. How many teddy bears were packed in the small box?

O

32 athletes are going camping for the weekend. Three athletes can sleep in one tent. What is the minimum number of tents that will be needed?
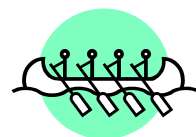
P

Mike poured five liters of orange juice into four large jugs. Each jug contained the same amount of orange juice. How much orange juice did Mike pour into each jug?

Q

39 students choose to go canoeing at a school camp. No more than 4 students are allowed in each canoe. What is the minimum number of canoes needed for all 39 students to participate?

R

A farmer packs 45 kilograms of carrots for the Farmer's Market. He puts the same amount of carrots into each of 10 bags. How many kilograms of carrots are in each bag?

S

Write and solve your own word problem that includes a remainder which needs to be interpreted.

T

Answer Key: Interpreting Remainders

A 30÷7 = 4 R2

Peter can buy
4 books.

*Ignore remainder

B $30.00÷4 = $7.50

Each child gets
$7.50.

*Use a decimal

C 32÷6 = 5 R2

6 tables will be
needed.

*Round up

D 42÷4 = 10 R2
The length of each
ribbon is 10 ½
meters.

*Use a fraction

E 37÷2 = 18 R1

There are
18 full tables.

*Ignore remainder

F $84.00÷8= 10.50

Lia charges
$10.50 per hour.

*Use a decimal

G 84÷9= 9 R3

Kate uses 10
muffin trays.

*Round up

H 56÷6= 9 R2

The students can
make 9 relay
teams.
*Ignore remainder

I 55÷9= 6 R1

The teacher fills 6
shelves.

*Ignore remainder

J 46÷6= 7 R4

4 apples are in the
partially filled tray.

*Remainder as
 answer

K 62÷4= 15 R2

16 cars will be
needed.

*Round up

L 21÷6= 3 R3

Tom used 3 ½
meters of fabric for
each flag.

*Use a fraction

M 36÷8= 4 R4

Mrs. Jones needs
to order 5 pizzas.

*Round up

N $87.00÷5=$15.40

Each friend will
need to pay
$15.40.

*Use a decimal

O 85÷9= 9 R4

4 teddy bears were
packed in the small
box.
*Remainder as
 answer

P 32÷3= 10 R2

11 tents will be
needed.

*Round up

Q 5 ÷4 = 1 R1

Mike poured 1 ¼
liters of orange
juice into each jug.

*Use a fraction

R 39÷4= 9 R3

The least number
of canoes that will
be needed is 10.

*Round up

S 45÷10= 4 R5

4 ½ kilograms of
carrots are in each
bag.

*Use a fraction

T

Answers will vary.