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## 1. Due pencil and paper to answer the question.

There are 67 crackers in a box. Deon and his six brothers decide to share them equally. How many whole crackers will each boy get?

Number model: \_\_\_\_\_ Answer: \_\_\_\_\_ crackers

ANSWER: Number model:  $67 \div 7 \rightarrow 9 \text{ R4}$ 

Each boy will get 9 crackers. There will be 4 crackers left over.

## 2. Due pencil and paper to answer the question.

There are 45 marbles in a box. Nigel and his five brothers decide to share them equally. How many whole marbles will each boy get?

Number model with unknown: \_\_\_\_\_ Answer: marbles

Summary number model: \_\_\_\_\_

ANSWER: Sample number models are given.

 $45 \div 6 = m$ 

m = 7 marbles

 $45 \div 6 \rightarrow 7 R3$ 

## 3. Due pencil and paper to answer the question.

Reginald baked 69 brownies for the school carnival. He put the brownies on plates. Each plate holds 8 brownies. How many plates were needed to hold all of the brownies?

Number model: \_\_\_\_ Answer: \_\_\_\_\_ plates

ANSWER: Number model:  $69 \div 8 \rightarrow 8 \text{ R5}$ ; 9 plates

# 4. Due pencil and paper to answer the question.

Malik built 74 birdhouses to sell at a school fundraiser. He put the birdhouses in boxes. Each box holds 8 birdhouses. How many boxes were needed to hold all of the birdhouses?

Number model with unknown: \_\_\_\_\_

Answer: boxes

Summary number model: \_\_\_\_

ANSWER: Sample number models are given.

 $74 \div 8 = b$ 

10 boxes

 $74 \div 8 \rightarrow 9 R2$ 

# 5. Divide. If there is a remainder, write it as a fraction.

Answer:\_\_\_

a.  $14\frac{4}{7}$  b. 14 c.  $13\frac{4}{7}$  d.  $14\frac{1}{7}$ 

ANSWER: a

6. Divide. If there is a remainder, write it as a fraction.

 $168 \div 8$ 

Answer:

a. 21 b. 20

c. 31

d. 10

ANSWER: a

7. Due pencil and paper to answer the question.

Divide. If there is a remainder, write it as a fraction.

5)405

Answer:

**b.** 157 ÷ 9

Answer:

ANSWER: a. 81

**b.**  $17\frac{4}{9}$ 

8. Due pencil and paper to answer the question.

Mrs. Gutierrez wants to buy a rug and pay for it in 1 year. The store offers two payment plans, and she wants to choose the cheaper one.

Plan A: \$13 each week; a total of 52 payments

Plan B: \$56 each month; a total of 12 payments

Which plan would cost less?

Explain your answer.

ANSWER: Plan B would cost less.

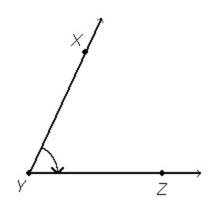
Sample answer:

Plan A would cost \$13 \* 52 = \$676. Plan B would cost \$56 \* 12 = \$672.

Plan B costs less than Plan A.

## 9. Due pencil and paper to answer the question.

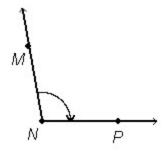
Determine whether  $\angle XYZ$  is acute, right, or obtuse. \_\_\_\_\_\_ Find the measure of  $\angle XYZ$ : \_\_\_\_\_\_°



ANSWER: Acute, 65°

# 10. Due pencil and paper to answer the question.

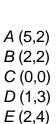
Determine whether  $\angle MNP$  is acute, right, or obtuse. \_\_\_\_\_ Find the measure of  $\angle MNP$ :

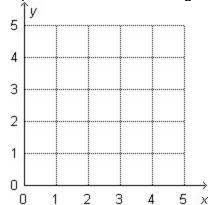


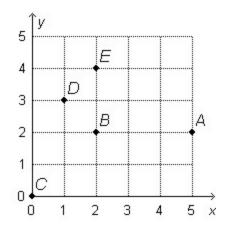
ANSWER: Obtuse, 100°

# 11. Due pencil and paper to answer the question.

Plot and label each point on the coordinate grid.







ANSWER:

# 12. Due pencil and paper to answer the question.

Insert parentheses to make the number statement true.

$$6 + 5 * 7 = 77$$

ANSWER: 
$$(6+5)*7=77$$

# 13. Duse pencil and paper to answer the question.

Insert parentheses to make the number statement true.

$$41 = 7 * 3 + 5 * 4$$

ANSWER: 
$$41 = (7 * 3) + (5 * 4)$$

# 14. Duse pencil and paper to answer the question.

Insert parentheses to make the number statement true.

$$2 + 8 * 8 = 2 * 3 * 11$$

ANSWER: 
$$2+(8*8)=(2*3)*11$$

OR

$$2+(8*8)=2*(3*11)$$

$$2+(8*8)=2*3*11$$

# 15. Due pencil and paper to answer the question.

Insert parentheses to make the number statement true.

$$6 + 6 * 7 + 6 = 8$$

ANSWER: 
$$(6+(6*7)) \div 6 = 8$$

## 16. Due pencil and paper to answer the question.

Insert parentheses to make these number sentences true.

**a.** 
$$9 + 1 * 6 = 60$$

**b.** 
$$38 = 6 * 3 + 5 * 4$$

**c.** 
$$8 + 9 * 4 = 2 * 2 * 11$$

**d.** 
$$1 + 5 * 7 \div 4 = 9$$

ANSWER:

**a.** 
$$(9+1)*6=60$$

**b.** 
$$38 = (6 * 3) + (5 * 4)$$

**c.** 
$$8+(9*4)=(2*2)*11 OR 8+(9*4)=2*(2*11) OR 8+(9*4)=2*2*11$$

**d.** 
$$(1+(5*7)) \div 4 = 9$$

# 17. Round to the nearest hundred.

456,983

ANSWER: 457,000

#### 18. Round to the nearest ten.

6,665,423

ANSWER: 6,665,420

# 19. Round to the nearest thousand.

ANSWER: 74,105,000

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#### 20. Round to the nearest hundred.

227,416,531

ANSWER: 227,416,500 227416500

# 21. Due pencil and paper to answer the question.

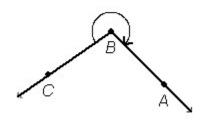
Round these numbers to the nearest ten thousand.

- **a.** 358,519
- **b.** 7,388,949
- **c.** 65,443,369
- **d.** 583,228,251

#### ANSWER:

- **a.** 360,000
- **b.** 7,390,000
- **c.** 65,440,000
- **d.** 583,230,000

# 22. Measure reflex angle CBA. \_\_\_\_\_°



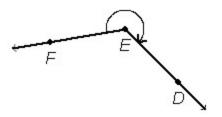
ANSWER: 260

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23. Due pencil and paper to answer the question.

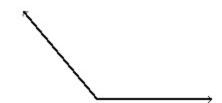
Draw reflex angle *DEF* so that it measures 235°.

ANSWER: Student's angle should be labeled with E as the vertex and D and F on opposite sides of the angle. Check that the measure of the reflex angle is 235°.



# 24. Description Use pencil and paper to answer the question.

Three students measured the angle below.



- Bill used his half-circle protractor. He said the angle measure is about 50°.
- Jayla used her half-circle protractor. She said the angle measure is about 130°.
- Hugo used his full-circle protractor. He said the angle measure is about 230°.

Use your half-circle and your full-circle protractor to measure the angle. Do you agree with Bill, Jayla, or Hugo? Why?

ANSWER: Sample answer: Jayla and Hugo; it depends which way you measure. The obtuse angle is 130°, but the reflex angle is 230°. Bill must have used the wrong scale on the half-circle protractor.

25. Divide. If there is a remainder, write it as a fraction.

599/16

a.  $37\frac{7}{16}$  b.  $37\frac{8}{16}$  c.  $38\frac{7}{16}$  d.  $36\frac{8}{16}$ 

ANSWER: a

26. Divide. If there is a remainder, write it as a fraction.

38)646

Answer: \_\_\_\_\_

a. 17 b.  $16\frac{11}{38}$  c.  $17\frac{11}{38}$  d. 16

ANSWER: a

# 27. Description Use pencil and paper to answer the question.

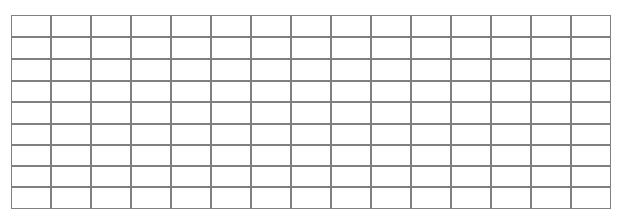
Divide. If there is a remainder, write it as a fraction.

a. 26)494

Answer: \_\_\_\_\_

**b.** 325 ÷ 12

Answer: \_\_\_\_\_



ANSWER: a. 19

**b.**  $27\frac{1}{12}$ 

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#### 28. Due pencil and paper to answer the question.

#### A Trip to Adventure Land

The students in Ms. Clare's and Mr. Kelly's classes at Ridge Elementary School are going on a field trip to Adventure Land. There are 30 students in each class.

Mr. Kelly's class secretary has the following information about admission prices:

Adventure Land Special Group Rates: One Class - \$90.00

Adults (1 for every 10 students) - Free

It costs \$90.00 to rent a bus for a day. One bus can hold 68 people.

Calculate the amount of money each student needs to pay for the trip. Explain your strategy below.


ANSWER: There are 30 students in each class, so 60 students are going. That means they need 6

Since a bus holds 68 people, one bus will be enough.

adults to go. So 66 people are going.

The cost to get into Adventure Land will be \$90.00 \* 2, which is \$180.00.

The bus costs \$90.00, so the total cost of the trip is \$180.00 + \$90.00 = \$270.00.

There are 60 students, so divide \$270.00 by 60 to get \$4.50.

To be safe, have each student pay \$5.00. \$5.00 times 60 is \$300.00, so there will be enough money.

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