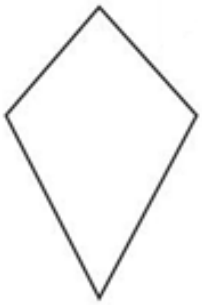
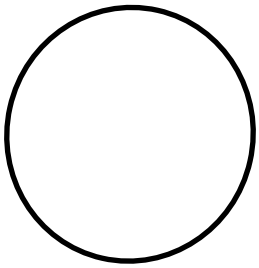
4th Grade Test

Name_____

How many lines of symmetry are in the following pictures:

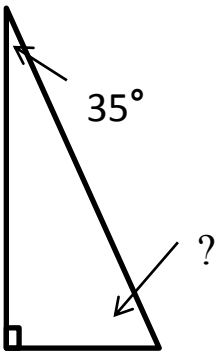
1. 

_____

2. 

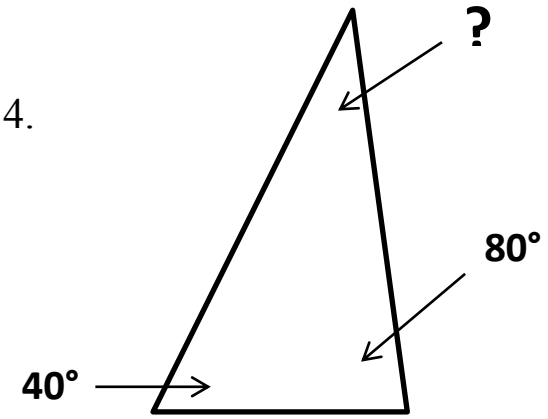
_____

Find the missing numbers:

3. 

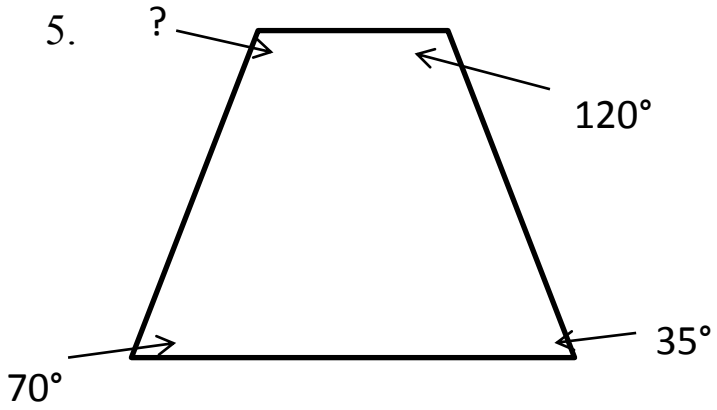
? =_____

4.



? =_____

5.



? =_____

Riddles!

6. I am a triangle that has two sides that are the same but my last side is different. What type of triangle am I? _____

7. I am a four sided figure with equal sides but unequal angles. I'm sort of like a slanted square. What is my name? _____

Find the missing numbers:

1. $2y + 3 = 15$ $y =$ _____

2. $f + 7 = 16$ $f =$ _____

3. $g + 5 = 3$ $g =$ _____

Time

1. How much time (in hours and minutes) is in between 8:45AM and 2:30PM?

   _____

2. How many years total are in 1 century and 2 decades? _____

Word problems

3. Sarah wants to buy a guitar for her birthday. The guitar is 145 dollars, and she only has 98 dollars. Her mom promises to give her 30 dollars to help her pay for the guitar. How much more money does she need? $_____

4. **True** or **False** Algebra is a type of math dealing with shapes.

   _____

Number Theory and Probability

1. What is $\sqrt{49}$?
   A. 6
   B. 49
   C. 7
   D. 8
2. $3 \times 3 \times 3 \times 3 \times 3$ can be written as 3 to the power of
   A. 3
   B. 2
   C. 1
   D. 5
3. My sock drawer contains 3 blue socks, 2 yellow socks, 5 purple socks, and 3 brown socks. If I randomly select a sock, what is the probability that it will be blue?

   _____

4. What is the likelihood that I will roll the number 7 on a 6-sided die?
   A. 1
   B. 0
   C. 1/6
   D. 1/3
5. What is the probability of rolling an even number greater than 3 on a 6-sided die?

   _____

6. What is the probability of selecting a Jack or an Ace from a standard 52-card deck?
   A. 9/52
   B. ¼
   C. ½
   D. 1/6
7. A spinner is split into 10 parts, and the parts are labeled 1-10. What is the probability that a spin will land on a number below 6?
   A. .5
   B. .6
   C. .1
   D. .4

8. What is the best way to make an experiment more accurate?
   A. Only write down results that support your hypothesis
   B. Increase the number of trials in the experiment
   C. Use the most expensive equipment possible
9. When we increase the number of trials in an experiment, it is most probable that:
   A. Experimental probability grows further from theoretical probability
   B. The likelihood of all outcomes goes up
   C. Experimental probability grows closer to theoretical probability
   D. The likelihood of all outcomes goes down
10. A spinner is divided into four sections: red, blue, yellow, and green. You spin two times. What is the probability that both spins land on green?
    A. 1/16
    B. ¼
    C. 1/8
    D. 2/16
11. What is 4^2?
    A. 4
    B. 2
    C. 16
    D. 8
12. What is b^4?
    A. $b \times b$
    B. $b + b + b + b$
    C. $4 \times b$
    D. $b \times b \times b \times b$
13. Name the next number in the sequence: 2, 5, 11, 23…

    _____

14. What is 8^1?

    _____

15. What is 7624567^0?

    _____

Hey guys! We loved having you this week. To entertain the graders while they are grading your test, draw a fun picture when you're done with your test. Thank you all for coming!

-4th grade teachers.

Nidhi Goel and Abigail Samson