1. Red has 5 bags of goodies. If she has the same amount of goodies in each bag and a whole number of bags, what CANNOT be the total number of goodies she has?

**A. 5000 B. 100 C. 63 D. 50 E. NOTA**

2. Little Red Riding Hood needs to get her goodies to bring to her grandmother but doesn't know how many to bring. Her grandmother says she wants

5 ● (7 - 3) - [((3 ● 2) + 4) ÷ 2] - 3 goodies. How many should she bring?

**A. 15 B. 14 C. 13 D. 12 E. NOTA**

3. Little Red Riding Hood wants to bake a cherry pie for her grandmother. If she makes a pie with a radius of 3 inches, what will the circumference of the pie be in inches?

**A. 6π B. 5π C. 4π D. 2π E. NOTA**

4. Red asks Cayle to give her a triangle question. Cayle writes, "Find the area of the right triangle shown below". Red writes down the correct answer. What number did Red write?

4

3

4

333

4

3

**A. 12 B. 6 C. D.  E. NOTA**

5. Red’s grandmother is going to eat the pie Red made her in problem 3. She is on a strict diet and has to measure how much food she eats every day. What is the area of the pie in problem 3?

**A. 9π B. 6π C. 3π D. 6 E. NOTA**

6. As she crosses the bridge Red sees a talking fish named Kevin. Kevin fish is very skinny and needs food. He asks if he can have  of Red’s goodies. What is this fraction in lowest terms?

**A. B. C. D. E. NOTA**

7. The Big Bad Wolf is having a big bad day. He is currently lying in his bed in a foul mood. If his bed is rectangular with a width of 5 feet and a length that is 3 less than twice the width, what is the total area of his bed in square feet?

**A. 50 B. 35 C. 15 D. 5 E. NOTA**

8. Jennifer thinks she’s a faster baker than Red and they have a bake-off to see who can bake more goodies. If Jennifer bakes 3(2 + 72) + (9 ÷ 3) goodies and Red bakes (2 • 8 + 8 ÷ 22) ((33 - 1) ÷ 3) goodies, who baked the most goodies and won the bake off?

**A. Jennifer B. Red C. Allergic D. They tied E. NOTA**

9. Red can't just have fun all day, you know. Red earned $20.00 today. If she spends $15.00, what is the percentage of her original money she have left over?

**A. 75% B. 25% C. 20% D. 15% E. NOTA**

10. Solve for x : 3x+4 =

**A. 2 B. 0 C. D. Can’t be solved E. NOTA**

11. The Big Bad Wolf brought his friends to steal Red’s goodies. The wolves surround Red to make a shape. If the wolves are all equidistant from Red what shape do they make?

**A. Circle B. Rectangle C. Rhombus D. Square E. NOTA**

12. The wolves in the previous question switch to their attack shape. If this shape is a quadrilateral with diagonals of equal length, which of the following cannot be their attack shape?

**A. Kite B. Rectangle C. Square D. Trapezoid E. NOTA**

13. Red is honing her math skills so she can show off to her grandmother! She solves the equation

x ● (6 + 5) - 3x = x + 7 for x. What was her answer?

**A. 7 B. 1 C. D. 0 E. NOTA**

14. The Big Bad Wolf is putting on Red’s grandmother’s clothes to trick Red but cannot hide his big triangular shaped teeth. If he has 35 teeth and each tooth has a base of 3 in and a height of 4 in, what is the total area of all his teeth? (Assume his teeth are all two-dimensional, have only one side, and are identical)

**A. 420 in2 B. 210 in2 C. 12 in2 D. 6 in2 E. NOTA**

15. Red is running down a big hill on the Cartesian plane on the way to her grandmother’s house. If she starts at the coordinate (6, 8) and runs all the way down to the bottom of the hill at point (12, 2), what is the slope of the hill?

**A. -2 B. -1 C. 0 D. 1 E. NOTA**

16. As Red begins her journey to her grandmother’s house she finds a bridge that is guarded by the Big Bad Wolf. He says that he needs to know how many goodies Red has in her basket. Red says she has three more than six less than eight goodies. How many goodies does she have?

**A. 9 B. 4 C. 2 D. 0 E. NOTA**

Use the following information to answer Questions 17 and 18:

*Red has to travel 3.5 miles to get to her grandmother’s house. Assume Red walks at 2 miles per hour.*

17. Red is thinking about taking a wagon for the first 1.5 miles. If the wagon can travel at 3 miles per hour, how many hours will it take for her to get to her grandmother's house if she walks the rest of the way after leaving the wagon?

**A. 4.5 B. 3 C. 1.5 D. E. NOTA**

18. If Red walks the entire way and has already traveled two fifths of the way to her grandmother’s house, how many more miles does she have to go?

**A. 3.0 B. 2.1 C. 1.4 D. 1.0 E. NOTA**

19. Red's grandmother is waiting for her at home. She is a very able woman, and likes to cut down trees using her trusty axe. If she can cut down 2 small trees in 15 minutes, how many small trees can she cut down in 2 hours?

**A. 100 B. 32 C. 16 D. 8 E. NOTA**

20. Red likes to bake goodies all year long. In fact, last year she baked 228 goodies all by herself! On average, how many goodies does Red bake every month?

**A. 57 B. 38 C. 19 D. 17 E. NOTA**

21. As Red walks she thinks about her friends back home. She has nine friends that like her goodies and 12 friends that like to make their own goodies. If five of her friends like her goodies *and* make their own goodies and 4 friends don’t like goodies at all, how many friends does she have altogether?

**A. 30 B. 22 C. 21 D. 20 E. NOTA**

22. Red is writing down all of the mathematical properties she knows with examples of each. She writes 65(8 + 95) = 65(95 + 8) but can’t remember the property. Can you help her out?

**A. Associative Property of Addition**

**B. Communative Property of Addition**

**C. Commutative Property of Addition**

**D. Distributive Property**

**E. NOTA**

23. Red finds Jason in the woods playing soccer. Immediately he starts begging for some food. Red says she will give him x goodies and gives him the inequality 3(x+2) <7. What is the greatest whole number of goodies will Jason be able to get from Red?

**A. 7 B. 5 C. 3 D. 0 E. NOTA**

24. As Red travels in the forest she runs into Justin and Jaewon. They refuse to let her pass until she answers their hardest math question. Soon, they begin yelling at each other over what question to ask her. Disagreeing on what to ask, Jaewon asks for a factor of 48 and Justin asks for a factor of 84. What is the biggest number Red can give that will satisfy both of their questions?

**A. 84 B. 48 C. 16 D. 12 E. NOTA**

25. The Big Bad Wolf is 64% complete with his evil plan to get Red’s goodies. What is this percent as a fraction in simplest form?

**A. B. C. D. E. NOTA**

26. Little Red’s famous hood has ripped and she needs to make a new one before she leaves for her grandmother’s house! If she wants the hood in the shape shown below, how many square inches of fabric does she need to make it?

12 in.

15 in.

30 in.

**A. 12π + 450 B. 36π + 450 C. 36π + 225**

**D. 144π + 450 E. NOTA**

27. Red’s grandmother is planning a party at her house and needs to make goodies. If the grandmother has already made of the goodies and Red is bringing of the goodies, what fraction of goodies still need to be made?

**A.  B.  C.  D.  E. NOTA**

28. The Big Bad Wolf is pretty powerful. What is four cubed?

**A. 64 B. 12 C. 7 D. 1 E. NOTA**

29. The Big Bad Wolf is chasing Red! Red runs 18 yards before the wolf starts to chase her. If the wolf runs at 8 feet per second and Red runs at 360 feet per minute, how many minutes will it take for the wolf to catch up to Red?

**A. 1 B. C. D. E. NOTA**

30. After getting rid of the Big Bad Wolf once he keeps trying to get Red’s goodies! This made Red very mad and she decides to hire guards to protect her house. She hires her guards every day in a arithmetic sequence. If she hires guards in the sequence 3, 6, 9, 12… for days 1, 2, 3, and 4 respectively, how many guards will she recruit on the 7th day?

**A. 12 B. 15 C. 21 D. 36 E. NOTA**