

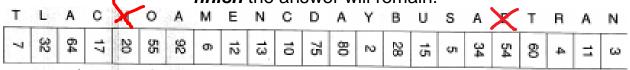
GRADE 12 ESSENTIAL UNIT A - PROBLEM SOLVING GUESS AND CHECK (PUZZLE)

Name:		
Date:		

Use the **Guess and Check** method. **Guess** at a reasonable answer! Then **check** to see if you are right. Usually you nail it down within three or four tries. You will know if you have the **correct answers** by **doing the puzzle**!

What Do You Call a Lamb Covered with Chocolate?

Find each correct answer and cross out the letter above it. **When you finish** the answer will remain!



- 1. Sum of two numbers = 15
 Difference of the numbers = 3
 Find the numbers.
 What is their product?
- 2. Sum of two numbers = 16 Difference of the numbers = 6 Find the numbers. What is their product?

'Product' means multiply. 'Sum' means add. 'Difference' ≡ subtract

- 3. Sum of two numbers = 13 Difference of the numbers = 1 Find the numbers. What is the larger number?
- 4. Sum of two numbers = 11 Product of the numbers = 24 Find the numbers. What is their difference?

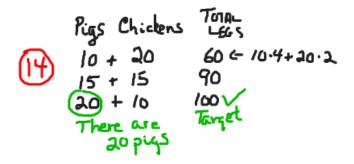
- 5. Sum of two numbers = 14 Product of the numbers = 40 Find the numbers. What is their difference?
- 6. Sum of two numbers = 15 Product of the numbers = 36 Find the numbers. What is the smaller number?



- 7. The Vampires played 20 games. The team won 4 more games than it lost. How many games did the Vampires win?
- 8. Zarina said, "The sum of my age and my father's age is 50. The product of our ages is 400." How old is Zarina?
- 9. Ernie has twice as many stickers as Bert. Together they have 90 stickers. How many stickers does Ernie have?
- 10. Tommy said, "My mommy is 4 times as old as I am. The sum of our ages is 40." How old is Tommy's mommy?

- 11. Henry's sister is 3 years younger than Henry. The product of their ages is 180. How old is Henry?
- 12. Dad is twice as old as Junior. Gramps is twice as old as Dad. The sum of the three ages is 140. How old is Gramps?

- 13. The Cyclone Coaster has 16 cars. Some of them hold 2 passengers and some hold 3 passengers. If there is room for 36 people altogether, how many cars hold 3 passengers?
- 14. A math teacher drove past a farmyard full of chickens and pigs. The teacher noticed that there were a total of 30 heads and 100 legs. How many pigs were there?



There is a far more elegant way of doing these! Algebra. Ask your teacher.