



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Judge whether a statement is sufficient to answer a question.
- ✓ Solve problems by working backwards.
- ✓ Check assumptions before concluding.
- ✓ Use elimination to narrow options.



Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

1 Question: What is z ? Statement: $z - 7 = 3$. Is it sufficient?

- ☐ A. Yes ($z = 10$) ☐ B. No ☐ C. Only sometimes
☐ D. Cannot tell

3 A number is doubled, then 6 is added, giving 20. The original number is:

- ☐ A. 7 ☐ B. 14 ☐ C. 10 ☐ D. 13

2 Question: Is m positive? Statement: $m^2 = 25$. Is it sufficient?

- ☐ A. Yes ☐ B. No ☐ C. Only sometimes
☐ D. Always

4 A number has 10 subtracted, then is tripled, giving 15. The original is:

- ☐ A. 15 ☐ B. 5 ☐ C. 25 ☐ D. 45



Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

5 $z - 7 = 3$ gives $z =$ _____

6 To undo doubling, you _____

7 Question: What is z ? Statement: $z - 7 = 3$. Sufficient?

8 Question: Is m positive? Statement: $m^2 = 25$. Sufficient?

9 A number is doubled, then 6 is added, giving 20. Work backwards to find the original number.



Section C • Challenge

• CHALLENGE

5

10 A number has 10 subtracted, then is tripled, giving 15. Work backwards to find the original number.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature

Parent's Signature

ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-B 3-A 4-A | 5 10 6 halve 7 = Yes, $z = 10$ 8 = No, m could be 5 or -5 9 = $(20 - 6)/2 = 7$ | 10 = $15/3 + 10 = 15$

