



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Find the union of two sets.
- ✓ Find the intersection of two sets.
- ✓ Test whether one set is a subset of another.
- ✓ Recognise the empty set and disjoint sets.

Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

1 A = {a,b,c}, B = {b,c,d}. $A \cup B = ?$

- ☐ A. {a,b,c,d} ☐ B. {b,c} ☐ C. {a,d} ☐ D. {a,b,c}

2 A = {a,b,c}, B = {b,c,d}. $A \cap B = ?$

- ☐ A. {b,c} ☐ B. {a,b,c,d} ☐ C. {a,d} ☐ D. { }

3 Is $\{1,3,5\} \subseteq \{1,2,3,4,5\}$?

- ☐ A. Yes ☐ B. No ☐ C. Only partly
☐ D. Cannot tell

4 Is $\{1,6\} \subseteq \{1,2,3,4,5\}$?

- ☐ A. Yes ☐ B. No ☐ C. Only partly
☐ D. Cannot tell

Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

5 The _____ of two sets contains all their elements.

6 The _____ of two sets contains their common elements.

7 Let A = {a,b,c}, B = {b,c,d}. Find $A \cup B$.

8 Let A = {a,b,c}, B = {b,c,d}. Find $A \cap B$.

9 Is $\{1,3,5\}$ a subset of $\{1,2,3,4,5\}$?

Section C • Challenge

• CHALLENGE

5

10 Is $\{1,6\}$ a subset of $\{1,2,3,4,5\}$?

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-A 3-A 4-B | 5 union 6 intersection 7 = {a,b,c,d} 8 = {b,c} 9 = Yes | 10 = No,
6 is not in the second set