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- two
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# Part One

| <b>1.</b> (1 point) exercise 4d $a = 3, b = 2, c = 5$   | <b>4.</b> (2 points) exercise 9d $a = 4, b = 3, c = 2$   |          |
|---|--|----------|
| (a) answer 4 wrong  | (a) answer 2 wrong   | 8 points |
| (b) answer 2 wrong  | ► (b) answer 1 correct   |          |
| • (c) answer 1 correct  | (c) answer 5 wrong   |          |
| (d) answer 3 wrong  | (d) answer 3 wrong   |          |
| (e) answer 5 wrong  | (e) answer 4 wrong   |          |
| <b>2.</b> (1 point) exercise 1a $a = 2$   | Some other questions   |          |
| (a) answer 3 wrong  |  |          |
| (b) answer 2 wrong  | <b>1.</b> (1 point) exercise 12a $a = 3, b = 3, c = 4$   |          |
| (c) answer 1 correct  | • (a) answer 1 correct   |          |
| <ul> <li>3. (1 point) exercise 14a a = 2, b = 2, c = 3</li> <li>(a) answer 1 correct</li> <li>(b) answer 4 wrong</li> <li>(c) answer 5 wrong</li> <li>(d) answer 2 wrong</li> </ul> | <ul> <li>(b) answer 2 wrong</li> <li>(c) answer 3 wrong</li> <li>(d) answer 4 wrong</li> <li>(e) answer 5 wrong</li> <li>2. (2 points) exercise 13b a = 5, b = 3, c = 6</li> </ul> |          |
| (e) answer 3 wrong  | <ul> <li>(a) answer 3 wrong</li> <li>(b) answer 4 wrong</li> <li>(c) answer 2 wrong</li> <li>(d) answer 5 wrong</li> <li>(e) answer 1 correct</li> </ul>                           |          |
|   |  |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{a, b, c\}$  and  $B = \{a, c, x\}$ .

$$A \cup B = \{a, b, c, x\}$$

$$A \cap B = \{a, c\}$$

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# Part One

| <b>1.</b> (1 point) exercise 1b $a = 3$            | <b>4.</b> (1 point) exercise 14e $a = 4, b = 2, c = 8$  |          |
|--|---|----------|
| (a) answer 2 wrong                                 | (a) answer 3 wrong                                      | 8 points |
| (b) answer 3 wrong                                 | $\blacktriangleright$ (b) answer 1 correct              |          |
| • (c) answer 1 correct                             | (c) answer 4 wrong                                      |          |
|  | (d) answer 2 wrong                                      |          |
| 2. (1 point) exercise 4b $a = 5$ ,                 | b = 2, c = 2 (e) answer 5 wrong                         |          |
| (a) answer 3 wrong                                 |   |          |
| ► (b) answer 1 correct                             | Some other questions                                    |          |
| (c) answer 4 wrong                                 |   |          |
| (d) answer 5 wrong                                 | <b>1.</b> (2 points) exercise 13c $a = 4, b = 5, c = 4$ |          |
| (e) answer 2 wrong                                 | (a) answer 2 wrong                                      |          |
|  | (b) answer 3 wrong                                      |          |
| <b>5.</b> ( <i>z</i> points) exercise 95 $a = 5$ , | , b = 5, c = 6 (c) answer 4 wrong                       |          |
| (a) answer 1 correct                               | $\blacktriangleright$ (d) answer 1 correct              |          |
| (b) answer 5 wrong                                 | (e) answer 5 wrong                                      |          |
| (c) answer 2 wrong                                 |   |          |
| (d) answer 5 wrong                                 | <b>2.</b> (1 point) exercise 12b $a = 4, b = 2, c = 7$  |          |
| (e) answer 4 wrong                                 | (a) answer 2 wrong                                      |          |
|  | $\blacktriangleright$ (b) answer 1 correct              |          |
|  | (c) answer 3 wrong                                      |          |
|  | (d) answer 5 wrong                                      |          |
|  | (e) answer 4 wrong                                      |          |
|  |   |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{b, c, x\}$  and  $B = \{b, x, y\}$ .

$$A \cup B = \{b, c, x, y\}$$

$$A \cap B = \{b, x\}$$

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# Part One

| 1. (1 point) exercise 14<br>a $a=2,b=2,c=2$   | <b>4.</b> (1 point) exercise 4c $a = 4, b = 4, c = 5$                |          |
|---|--|----------|
| (a) answer 4 wrong  | (a) answer 3 wrong   | 8 points |
| ► (b) answer 1 correct  | (b) answer 2 wrong   |          |
| (c) answer 3 wrong  | $\blacktriangleright$ (c) answer 1 correct                           |          |
| (d) answer 5 wrong  | (d) answer 4 wrong   |          |
| (e) answer 2 wrong  | (e) answer 5 wrong   |          |
| <ul> <li>2. (2 points) exercise 9c a = 2, b = 5, c = 6</li> <li>(a) answer 1 correct</li> </ul> | Some other questions   |          |
| (b) answer 5 wrong  | <b>1.</b> (1 point) exercise 12a $a = 2, b = 4, c = 2$               |          |
| (c) answer 3 wrong  | (a) answer 3 wrong   |          |
| (d) answer 2 wrong  | (b) answer 4 wrong   |          |
| (e) answer 4 wrong  | (c) answer 5 wrong   |          |
| <ul> <li>3. (1 point) exercise 1a a = 4</li> <li>▶ (a) answer 1 correct</li> </ul>              | <ul> <li>(d) answer 1 correct</li> <li>(e) answer 2 wrong</li> </ul> |          |
| (b) answer 2 wrong  | <b>2.</b> (2 points) exercise 13c $a = 5, b = 4, c = 5$              |          |
| (c) answer 3 wrong  | (a) answer 1 correct   |          |
|   | (b) answer 4 wrong   |          |
|   | (c) answer 5 wrong   |          |
|   | (d) answer 2 wrong   |          |
|   | (e) answer 3 wrong   |          |
|   |  |          |
|   |  |          |

Part two

Some other instructions.

EXERCISE 1. Let  $A = \{c, x, y\}$  and  $B = \{c, y, z\}$ .



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$$A \cup B = \{c, x, y, z\}$$

$$A \cap B = \{c, y\}$$

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# Part One

|   |   | 1        |
|---|---|----------|
| <b>1.</b> (1 point) exercise 4a $a = 5, b = 3, c = 3$   | <b>4.</b> (2 points) exercise 9c $a = 2, b = 3, c = 8$  |          |
| (a) answer 4 wrong  | (a) answer 4 wrong                                      | 8 points |
| (b) answer 3 wrong  | (b) answer 3 wrong                                      |          |
| (c) answer 5 wrong  | (c) answer 5 wrong                                      |          |
| (d) answer 1 correct  | $\blacktriangleright$ (d) answer 1 correct              |          |
| (e) answer 2 wrong  | (e) answer 2 wrong                                      |          |
| <ul> <li>2. (1 point) exercise 14d a = 2, b = 5, c = 5</li> <li>(a) answer 4 wrong</li> </ul> | Some other questions                                    |          |
| (b) answer 1 correct  | <b>1.</b> (2 points) exercise 13b $a = 3, b = 3, c = 2$ |          |
| (c) answer 5 wrong  | (a) answer 4 wrong                                      |          |
| (d) answer 2 wrong  | (b) answer 3 wrong                                      |          |
| (e) answer 3 wrong  | (c) answer 5 wrong                                      |          |
| <b>2</b> (()  | (d) answer 2 wrong                                      |          |
| <ul> <li>a. (1 point) exercise 1b a = 2</li> <li>(a) answer 1 correct</li> </ul>              | $\blacktriangleright$ (e) answer 1 correct              |          |
| (b) answer 3 wrong  | <b>2.</b> (1 point) exercise 12c $a = 4, b = 4, c = 6$  |          |
| (c) answer 2 wrong  | (a) answer 5 wrong                                      |          |
|   | (b) answer 2 wrong                                      |          |
|   | (c) answer 3 wrong                                      |          |
|   | $\blacktriangleright$ (d) answer 1 correct              |          |
|   | (e) answer 4 wrong                                      |          |
|   |   |          |
|   |   |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{a, b, c\}$  and  $B = \{a, c, x\}$ .



$$A \cup B = \{a, b, c, x\}$$

$$A \cap B = \{a, c\}$$

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# Part One

| <b>1.</b> (1 point) exercise 1a $a = 4$                | <b>4.</b> (1 point) exercise 14b $a = 3, b = 5, c = 5$  |          |
|--|---|----------|
| (a) answer 2 wrong                                     | (a) answer 4 wrong                                      | 8 points |
| (b) answer 3 wrong                                     | (b) answer 3 wrong                                      |          |
| • (c) answer 1 correct                                 | $\blacktriangleright$ (c) answer 1 correct              |          |
|  | (d) answer 2 wrong                                      |          |
| <b>2.</b> (2 points) exercise 9b $a = 2, b = 5, c = 8$ | (e) answer 5 wrong                                      |          |
| (a) answer 4 wrong                                     |   |          |
| (b) answer 5 wrong                                     | Some other questions                                    |          |
| (c) answer 2 wrong                                     | -   |          |
| ► (d) answer 1 correct                                 | <b>1.</b> (1 point) exercise 12a $a = 3, b = 3, c = 4$  |          |
| (e) answer 3 wrong                                     | (a) answer 4 wrong                                      |          |
|  | (b) answer 5 wrong                                      |          |
| <b>3.</b> (1 point) exercise 4c $a = 5, b = 2, c = 5$  | (c) answer 1 correct                                    |          |
| (a) answer 2 wrong                                     | (d) answer 3 wrong                                      |          |
| (b) answer 5 wrong                                     | (a) answer 2 many                                       |          |
| (c) answer 3 wrong                                     | (e) answer 2 wrong                                      |          |
| (d) answer 4 wrong                                     | <b>2.</b> (2 points) exercise 13a $a = 3, b = 3, c = 5$ |          |
| • (e) answer 1 correct                                 | (a) answer 4 wrong                                      |          |
|  | (b) answer 5 wrong                                      |          |
|  | (c) answer 3 wrong                                      |          |
|  | (d) answer 2 wrong                                      |          |
|  | • (e) answer 1 correct                                  |          |
|  |   |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{a, b, c\}$  and  $B = \{a, c, x\}$ .



$$A \cup B = \{a, b, c, x\}$$

$$A \cap B = \{a, c\}$$

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# Part One

| <b>1.</b> (1 point) exercise 1b $a = 4$                | <b>4.</b> (1 point) exercise 4e $a = 2, b = 2, c = 8$   |          |
|--|---|----------|
| (a) answer 2 wrong                                     | (a) answer 5 wrong                                      | 8 points |
| • (b) answer 1 correct                                 | (b) answer 4 wrong                                      |          |
| (c) answer 3 wrong                                     | (c) answer 3 wrong                                      |          |
|  | $\blacktriangleright$ (d) answer 1 correct              |          |
| <b>2.</b> (1 point) exercise 14c $a = 3, b = 5, c = 3$ | (e) answer 2 wrong                                      |          |
| (a) answer I correct                                   |   |          |
| (b) answer 3 wrong                                     | Some other questions                                    |          |
| (c) answer 2 wrong                                     |   |          |
| (d) answer 4 wrong                                     | <b>1.</b> (2 points) exercise 13d $a = 3, b = 3, c = 5$ |          |
| (e) answer 5 wrong                                     | (a) answer 5 wrong                                      |          |
| 2 (2 points) exercise $0 = a - 5$ $b - 2$ $a - 7$      | ▶ (b) answer 1 correct                                  |          |
| <b>5.</b> (2 points) exercise 9a $u = 5, b = 5, c = 1$ | (c) answer 3 wrong                                      |          |
| (a) answer 2 wrong                                     | (d) answer 4 wrong                                      |          |
|  | (e) answer 2 wrong                                      |          |
| (c) answer 3 wrong                                     |   |          |
| (d) answer 1 correct                                   | <b>2.</b> (1 point) exercise 12c $a = 4, b = 2, c = 6$  |          |
| (e) answer 5 wrong                                     | (a) answer 3 wrong                                      |          |
|  | (b) answer 2 wrong                                      |          |
|  | (c) answer 4 wrong                                      |          |
|  | (d) answer 5 wrong                                      |          |
|  | (e) answer 1 correct                                    |          |
|  |   |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{a, x, y\}$  and  $B = \{a, y, z\}$ .

$$A \cup B = \{a, x, y, z\}$$

$$A \cap B = \{a, y\}$$

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# Part One

| <b>1.</b> (2 points) exercise 9d $a = 5, b = 3, c = 6$                                       | <b>4.</b> (1 point) exercise 14a $a = 5, b = 5, c = 7$          |          |
|--|---|----------|
| (a) answer 4 wrong   | (a) answer 5 wrong  | 8 points |
| (b) answer 5 wrong   | ► (b) answer 1 correct  |          |
| (c) answer 2 wrong   | (c) answer 3 wrong  |          |
| • (d) answer 1 correct   | (d) answer 2 wrong  |          |
| (e) answer 3 wrong   | (e) answer 4 wrong  |          |
| <ul> <li>2. (1 point) exercise 4d a = 2, b = 4, c = 3</li> <li>(a) answer 4 wrong</li> </ul> | Some other questions  |          |
| (b) answer 3 wrong   | <b>1.</b> (1 point) exercise 12b $a = 2, b = 4, c = 3$          |          |
| (c) answer 5 wrong   | ► (a) answer 1 correct  |          |
| (d) answer 1 correct   | (b) answer 3 wrong  |          |
| (e) answer 2 wrong   | (c) answer 5 wrong  |          |
| <ul> <li>3. (1 point) exercise 1a a = 3</li> <li>(a) answer 3 wrong</li> </ul>               | <ul><li>(d) answer 4 wrong</li><li>(e) answer 2 wrong</li></ul> |          |
| (b) answer 2 wrong   | <b>2.</b> (2 points) exercise 13b $a = 5, b = 4, c = 3$         |          |
| (c) answer 1 correct   | (a) answer 2 wrong  |          |
|  | (b) answer 5 wrong  |          |
|  | $\blacktriangleright$ (c) answer 1 correct                      |          |
|  | (d) answer 3 wrong  |          |
|  | (e) answer 4 wrong  |          |
|  |   |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{a, b, c\}$  and  $B = \{a, c, z\}$ .

$$A \cup B = \{a, b, c, z\}$$

$$A \cap B = \{a, c\}$$

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# Part One

| <b>1.</b> (1 point) exercise 1b $a = 4$   | <b>4.</b> (1 point) exercise 4b $a = 4, b = 5, c = 7$   |          |
|---|---|----------|
| (a) answer 2 wrong  | ► (a) answer 1 correct  | 8 points |
| ► (b) answer 1 correct  | (b) answer 2 wrong  |          |
| (c) answer 3 wrong  | (c) answer 3 wrong  |          |
| <ul> <li>2. (2 points) exercise 9b a = 3, b = 3, c = 2</li> <li>(a) answer 5 wrong</li> <li>(b) answer 3 wrong</li> </ul>   | <ul><li>(d) answer 4 wrong</li><li>(e) answer 5 wrong</li></ul>   |          |
| (c) answer 2 wrong  | Some other questions  |          |
| (d) answer 4 wrong  | <b>1.</b> (2 points) exercise 13c $a = 3, b = 2, c = 6$   |          |
| <ul> <li>(e) answer 1 correct</li> <li>3. (1 point) exercise 14c a = 3, b = 3, c = 5 <ul> <li>(a) answer 2 wrong</li> </ul> </li> <li>(b) answer 1 correct <ul> <li>(c) answer 5 wrong</li> </ul> </li> </ul> | <ul> <li>(a) answer 2 wrong</li> <li>(b) answer 4 wrong</li> <li>(c) answer 5 wrong</li> <li>(d) answer 3 wrong</li> <li>▶ (e) answer 1 correct</li> </ul>  |          |
| <ul><li>(d) answer 3 wrong</li><li>(e) answer 4 wrong</li></ul>   | <ul> <li>2. (1 point) exercise 12c a = 4, b = 4, c = 5</li> <li>(a) answer 1 correct</li> <li>(b) answer 3 wrong</li> <li>(c) answer 5 wrong</li> <li>(d) answer 4 wrong</li> <li>(e) answer 2 wrong</li> </ul> |          |
|   |   |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{a, b, x\}$  and  $B = \{a, x, z\}$ .

$$A \cup B = \{a, b, x, z\}$$

$$A \cap B = \{a, x\}$$

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# Part One

| <b>1.</b> (1 point) exercise 14e $a = 4, b = 4, c = 4$   | <b>4.</b> (2 points) exercise 9c $a = 5, b = 4, c = 2$          |          |
|--|---|----------|
| (a) answer 4 wrong   | (a) answer 2 wrong  | 8 points |
| (b) answer 3 wrong   | (b) answer 3 wrong  |          |
| • (c) answer 1 correct   | (c) answer 4 wrong  |          |
| (d) answer 2 wrong   | $\blacktriangleright$ (d) answer 1 correct                      |          |
| (e) answer 5 wrong   | (e) answer 5 wrong  |          |
| <ul> <li>2. (1 point) exercise 4c a = 2, b = 3, c = 3</li> <li>(a) answer 1 correct</li> </ul> | Some other questions  |          |
| (b) answer 5 wrong   | <b>1.</b> (1 point) exercise 12a $a = 4, b = 4, c = 6$          |          |
| (c) answer 4 wrong   | (a) answer 2 wrong  |          |
| (d) answer 2 wrong   | (b) answer 4 wrong  |          |
| (e) answer 3 wrong   | $\blacktriangleright$ (c) answer 1 correct                      |          |
| <ul> <li>3. (1 point) exercise 1a a = 5</li> <li>▶ (a) answer 1 correct</li> </ul>             | <ul><li>(d) answer 5 wrong</li><li>(e) answer 3 wrong</li></ul> |          |
| (b) answer 3 wrong   | <b>2.</b> (2 points) exercise 13d $a = 5, b = 2, c = 6$         |          |
| (c) answer 2 wrong   | (a) answer 5 wrong  |          |
|  | (b) answer 4 wrong  |          |
|  | $\blacktriangleright$ (c) answer 1 correct                      |          |
|  | (d) answer 3 wrong  |          |
|  | (e) answer 2 wrong  |          |
|  |   |          |

### Part two

Some other instructions.

EXERCISE 1. Let  $A = \{b, c, x\}$  and  $B = \{b, x, z\}$ .

$$A\cup B=\{b,c,x,z\}$$

$$A \cap B = \{b, x\}$$

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# Part One

| <b>1.</b> (2 points) exercise 9d $a = 5, b = 5, c = 8$ | <b>4.</b> (1 point) exercise 1b $a = 4$                 |          |
|--|---|----------|
| (a) answer 4 wrong                                     | ► (a) answer 1 correct                                  | 8 points |
| (b) answer 5 wrong                                     | (b) answer 2 wrong                                      |          |
| (c) answer 2 wrong                                     | (c) answer 3 wrong                                      |          |
| (d) answer 3 wrong                                     |   |          |
| • (e) answer 1 correct                                 | Some other questions                                    |          |
| <b>2.</b> (1 point) exercise 14d $a = 5, b = 2, c = 2$ | <b>1.</b> (2 points) exercise 13a $a = 4, b = 5, c = 3$ |          |
| (a) answer 4 wrong                                     | (a) answer 3 wrong                                      |          |
| (b) answer 5 wrong                                     | (b) answer 5 wrong                                      |          |
| (c) answer 3 wrong                                     | (c) answer 2 wrong                                      |          |
| ► (d) answer 1 correct                                 | (d) answer 4 wrong                                      |          |
| (e) answer 2 wrong                                     | $\blacktriangleright$ (e) answer 1 correct              |          |
| <b>3.</b> (1 point) exercise 4d $a = 4, b = 2, c = 6$  | <b>2.</b> (1 point) exercise 12b $a = 5, b = 2, c = 2$  |          |
| (a) answer 2 wrong                                     | (a) answer 4 wrong                                      |          |
| (b) answer 3 wrong                                     | (b) answer 2 wrong                                      |          |
| (c) answer 5 wrong                                     | (c) answer 5 wrong                                      |          |
| ► (d) answer 1 correct                                 | $\blacktriangleright$ (d) answer 1 correct              |          |
| (e) answer 4 wrong                                     | (e) answer 3 wrong                                      |          |
|  |   |          |

# Part two

#### Some other instructions.

EXERCISE 1. Let  $A = \{a, b, x\}$  and  $B = \{a, x, z\}$ .

$$A \cup B = \{a, b, x, z\}$$

$$A\cap B=\{a,x\}$$

| Solution Version n. 1 | Solution Version n. 2 | Solution Version n. 3 |
|-----------------------|-----------------------|-----------------------|
| 1. c                  | 1. c                  | 1. b                  |
| 2. c                  | 2. b                  | 2. a                  |
| 3. a                  | 3. a                  | 3. a                  |
| 4. b                  | 4. b                  | 4. c                  |
|                       |                       |                       |
| 1. a                  | 1. d                  | 1. d                  |
| 2. e                  | 2. b                  | 2. a                  |
|                       |                       |                       |

| Solution Version n. 4 | Solution Version n. 5 | Solution Version n. 6 |
|-----------------------|-----------------------|-----------------------|
| 1. d                  | 1. c                  | 1. b                  |
| 2. b                  | 2. d                  | 2. a                  |
| 3. a                  | 3. e                  | 3. d                  |
| 4. d                  | 4. c                  | 4. d                  |
|                       |                       |                       |
| 1. e                  | 1. c                  | 1. b                  |
| 2. d                  | 2. e                  | 2. e                  |
|                       |                       |                       |

| Solution Version n. 7 | Solution Version n. 8 | Solution Version n. 9 |
|-----------------------|-----------------------|-----------------------|
| 1. d                  | 1. b                  | 1. c                  |
| 2. d                  | 2. e                  | 2. a                  |
| 3. c                  | 3. b                  | 3. a                  |
| 4. b                  | 4. a                  | 4. d                  |
|                       |                       |                       |
| 1. a                  | 1. e                  | 1. c                  |
| 2. c                  | 2. a                  | 2. c                  |
|                       |                       |                       |

### Solution Version n. 10

- 1. e
- 2. d
- 3. d
- 4. a
- 1. e
- 2. d