

## Pairs Check With a Switch

### Geometry Facts

#### PURPLE

- 1. \_\_\_\_\_ angles total  $180^\circ$   
A) Complementary                      B) Supplementary
  
- 2. \_\_\_\_\_ triangles have exactly 2 equal sides.  
A) Scalene                                      B) Isosceles
  
- 3. Skew lines \_\_\_\_\_ meet in a point  
A) sometimes                                      B) never
  
- 4. The four angles of a quadrilateral always total \_\_\_\_\_.
  
- 5. List 3 different types of quadrilaterals  
A) \_\_\_\_\_  
B) \_\_\_\_\_  
C) \_\_\_\_\_

## Pairs Check With a Switch

### Geometry Facts

#### GOLD

1. \_\_\_\_\_ angles total  $90^\circ$   
A) Complementary      B) Supplementary
2. \_\_\_\_\_ triangles have no equal sides.  
A) Scalene      B) Isosceles
3. Parallel lines \_\_\_\_\_ meet in a point  
A) sometimes      B) never
4. The three angles of a triangle always total \_\_\_\_\_.
5. List 3 different types of triangles categorized by side length.
- A) \_\_\_\_\_
- B) \_\_\_\_\_
- C) \_\_\_\_\_

## Pairs Check With a Switch

### PURPLE

- 1. Fill in \_\_\_\_\_ with  $>$  or  $<$  or  $\bar{=}$ .      $-7$  \_\_\_\_\_  $4$
- 2.  $8 + (-5) = ?$
- 3. Order from greatest to least      $-8, 2, -3, 5, -1, -7, 0$   
\_\_\_\_\_
- 4.  $-32 + 18 = ?$
- 5. Find  $|-12|$
- 6.  $54 + (-5) = ?$
- 7.  $(-6)(-4) = ?$
- 8.  $-14 - (-5) = ?$
- 9.  $-12 - 13 = ?$
- 10.  $20 - 30 = ?$

## Pairs Check With a Switch

### **GOLD**

- 1. Fill in \_\_\_\_\_ with  $>$  or  $<$  or  $=$ .      $-9$  \_\_\_\_\_  $-4$
- 2.  $8 + (-15) = ?$
- 3. Order from greatest to least     $8, -2, 3, -5, -1, -5, 0$   
\_\_\_\_\_
- 4.  $-22 + 28 = ?$
- 5. Find  $|12|$
- 6.  $-54 \div (-9) = ?$
- 7.  $(6)(-4) = ?$
- 8.  $-14 - (-15) = ?$
- 9.  $-10 - 17 = ?$
- 10.  $12 - 30 = ?$

## PURPLE

If the domains are given using inequalities, write them using INTERVAL NOTATION.

If the domains are given in interval notation, rewrite them using INEQUALITIES.

- |                          |                            |                   |
|--------------------------|----------------------------|-------------------|
| <input type="checkbox"/> | 1. $5 \leq x \leq 12$      | 1.                |
| <input type="checkbox"/> | 2. $3 < x < 8$             | 2.                |
| <input type="checkbox"/> | 3. $-2 < x \leq 5$         | 3.                |
| <input type="checkbox"/> | 4. $x < 2$                 | 4.                |
| <input type="checkbox"/> | 5. $x \geq 7$              | 5.                |
| <input type="checkbox"/> | 6. <i>all real numbers</i> | 6.                |
| <input type="checkbox"/> | 7.                         | 7. $[-4, 8]$      |
| <input type="checkbox"/> | 8.                         | 8. $[-5, 7]$      |
| <input type="checkbox"/> | 9.                         | 9. $[-6, 9]$      |
| <input type="checkbox"/> | 10.                        | 10. $[0, \infty]$ |

## GOLD

If the domains are given using inequalities, write them using INTERVAL NOTATION.

If the domains are given in interval notation, rewrite them using INEQUALITIES.

- |                          |                            |                    |
|--------------------------|----------------------------|--------------------|
| <input type="checkbox"/> | 1. $-4 \leq x \leq 6$      | 1.                 |
| <input type="checkbox"/> | 2. $2 \leq x < 9$          | 2.                 |
| <input type="checkbox"/> | 3. $-5 \leq x < 6$         | 3.                 |
| <input type="checkbox"/> | 4. $x \leq 9$              | 4.                 |
| <input type="checkbox"/> | 5. $x > -3$                | 5.                 |
| <input type="checkbox"/> | 6. <i>all real numbers</i> | 6.                 |
| <input type="checkbox"/> | 7.                         | 7. $[-3, 8]$       |
| <input type="checkbox"/> | 8.                         | 8. $[3, 7]$        |
| <input type="checkbox"/> | 9.                         | 9. $[4, 9]$        |
| <input type="checkbox"/> | 10.                        | 10. $[-\infty, 0]$ |

## Graph Each Set On a Number Line

### PURPLE

1.  $\{x \leq 5 \text{ and } x \geq 1\}$

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2.  $\{x < -4 \text{ or } x \geq 2\}$

---

3.  $\{x < 4 \text{ or } x < 7\}$

---

4.  $\{-2 < x \leq 5\}$

---

5.  $\{x < 2 \text{ or } x \geq 0\}$

---

## Graph Each Set On a Number Line

### **GOLD**

1.  $\{x \leq 3 \text{ and } x \geq 0\}$

---

2.  $\{x < -2 \text{ or } x \geq 1\}$

---

3.  $\{x < 6 \text{ or } x < 2\}$

---

4.  $\{-3 < x \leq 2\}$

---

5.  $\{x < -2 \text{ and } x \geq 1\}$

---



## PURPLE

1.  $\log_3 243 =$

2.  $\ln e^9 =$

3.  $\log_4 \frac{1}{16} =$

4.  $\log_6 6^8 =$

5.  $e^{\ln(5x-7)} =$

6.  $\ln e^{x+7} =$

7. *Graph*  $y = \log_2 x$

8. *Find inverse of*  $y = 4^x$

9.  $e^{9\ln x} =$

## GOLD

1.  $\log_2 128 =$

2.  $\ln e^{11} =$

3.  $\log_3 \frac{1}{27} =$

4.  $\log_{10} 10^9 =$

5.  $e^{\ln(4x-11)} =$

6.  $\ln e^{x^2-2} =$

7. *Graph*  $y = e^{2x}$

8. *Find inverse of*  $y = \log_3 x$

9.  $e^{12\ln x} =$

## Pairs Check With a Switch

### PURPLE

- 1.  $\int \cos(5x) dx$
- 2.  $\int x^3 dx$
- 3.  $\int 4x^{-4} dx$
- 4.  $\int (2x-1) dx$
- 5.  $\int (\sin x - 1x) dx$
- 6.  $\int (\sec 3x)^2 dx$
- 7.  $\int \frac{1}{x^3} dx$
- 8.  $\int (3x^4 - 5x^2 + x) dx$
- 9.  $\int (x^{\frac{3}{2}} + 2x) dx$
- 10.  $\int 3\cos x dx$

## Pairs Check With a Switch

### **GOLD**

1.  $\int \sec 3x \tan 3x \, dx$

2.  $\int 4x^2 \, dx$

3.  $\int (\csc 4x)^2 \, dx$

4.  $\int (2x^3 + x^2) \, dx$

5.  $\int x^{-5} \, dx$

6.  $\int (4x^3 + x + 3) \, dx$

7.  $\int 3\sin 3x \, dx$

8.  $\int x^{-2} \, dx$

9.  $\int (x^{\frac{4}{3}} + x) \, dx$

10.  $\int \frac{1}{\sqrt{x}} \, dx$