

Name: Key

Scavenger Hunt Recording Sheet

Card # 1 NO

$$\frac{11t}{(5+7-11)} = \frac{11t}{12-11} = \frac{11t}{1} = 11t$$
11t

Card # 2

Irrational

Card # 3 ≈ 7

because $7 \cdot 7 = 49$

 ~~$51t$~~

Card # 4 $(24 - 24y)^{\frac{1}{4}}$

 $6 - 6y$

Card # 5 $cd^2 + 4$

$$-3(5)^2 + 4$$

$$-3(25) + 4$$

$$-75 + 4$$
-71

Card # 6 $-6 - (-3) - (-2)^3$

$$-6 - (-3) - 8$$

$$-6 - 24$$
-30

Card # 7 $4^2 - 5 \cdot 2 + 1 = 1$

 $4^2 - 5 \cdot (2+1) = 1$

Card # 8

 $\frac{63}{h} - 14$

Card # 9 $(3c^2 - 3d)^2 - 21$

$$(3(-3)^2 - 3(5))^2 - 21$$

$$(3 \cdot 9 - 3 \cdot 5)^2 - 21$$

$$(27 - 15)^2 - 21$$

$$12^2 - 21 = 144 - 21 = 123$$
123

Card # 10 Rational Integer

Card # 11 $10 - 5x = y$
 $(-4, 10)$

$$10 - 5(-4) = 10$$

$$10 + 20 = 30 \neq 10$$
NO

Card # 12 $(24 - 6)^2$
 $(16 - 6)^2$
 10^2

100

Card # 13

Identity Prop. X

Card # 14 NO

$$\frac{81xy}{9x} = 9y$$
9y

Card # 15 $-ab^2 - ab^2$

 $-2ab^2$

Card # 16 $u + 3v^2 - 2u^3$
 $u = -1, v = -3$

$$-1 + 3(-3)^2 - 2(-1)^3$$

$$-1 + 3 \cdot 9 - 2 \cdot -1$$

$$-1 + 27 + 2 = 28$$
28

Card # 17 $(-\frac{1}{6})^2$

 $\frac{1}{36}$

Card # 18

 $51t + 9$