

Performance Task - Number Power

1. Create equations and solve to complete the puzzle below. Find the missing sum.

W	X	Z	Y	27
W	Y	Y	Z	29
W	X	X	X	24
W	Z	Z	X	26
36	23	24	?	

① this column:

$$w + w + w + w = 36$$

$$4w = 36$$

$$\frac{4w}{4} = \frac{36}{4}$$

$$w = 9$$

② this row:

$$w + x + x + x = 24$$

$$w + 3x = 24$$

$$(9) + 3x = 24$$

$$3x = 24 - 9$$

$$3x = 15$$

$$\frac{3x}{3} = \frac{15}{3}$$

$$x = 5$$

③ this row:

$$w + z + z + x = 26$$

$$w + 2z + x = 26$$

$$9 + 2z + 5 = 26$$

$$2z = 26 - 9 - 5$$

$$2z = 12$$

$$\frac{2z}{2} = \frac{12}{2}$$

$$z = 6$$

④ this row:

$$w + x + z + y = 27$$

$$9 + 5 + 6 + y = 27$$

$$20 + y = 27$$

$$y = 27 - 20$$

$$y = 7$$

$y + z + x + x = ?$

$$7 + 6 + 5 + 5 = ?$$

$$23 = ?$$