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Math worksheet on *'Factoring - Identifying Large Factored Numbers - 3 Factors (Level 3)'*. Part of a broader unit on *'Factoring, Multiplication, Division, Fractions - Practice'*

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1

Factor 2079 to find p, d, and n

$$2079 = p^3 \cdot d^1 \cdot n^1$$

a	p=3, d=11, n=5	**b**	p=11, d=7, n=13
c	p=3, d=7, n=13	**d**	p=3, d=11, n=7
e	p=11, d=7, n=2		

2

Factor 2079 to find d, r, and c

$$2079 = d^1 \cdot r^3 \cdot c^1$$

a	d=11, r=7, c=13	**b**	d=11, r=3, c=7
c	d=11, r=3, c=13	**d**	d=11, r=7, c=2
e	d=3, r=7, c=5		

3

Factor 1210 to find n, y, and r

$$1210 = n^2 \cdot y^1 \cdot r^1$$

a	n=11, y=2, r=3	**b**	n=11, y=2, r=13
c	n=11, y=2, r=3	**d**	n=11, y=5, r=3
e	n=11, y=2, r=5		

4

Factor 1100 to find d, c, and b

$$1100 = d^2 \cdot c^1 \cdot b^2$$

a	d=5, c=11, b=7	**b**	d=5, c=11, b=2
c	d=5, c=11, b=13	**d**	d=5, c=11, b=7
e	d=5, c=2, b=7		

5

Factor 5145 to find y, n, and x

$$5145 = y^1 \cdot n^1 \cdot x^3$$

a	y=3, n=5, x=2	**b**	y=5, n=7, x=11
c	y=3, n=5, x=2	**d**	y=5, n=7, x=13
e	y=3, n=5, x=7		

6

Factor 4125 to find x, p, and n

$$4125 = x^1 \cdot p^3 \cdot n^1$$

a	x=3, p=11, n=7	**b**	x=5, p=11, n=7
c	x=3, p=11, n=2	**d**	x=3, p=5, n=11
e	x=5, p=11, n=13		

7

Factor 2376 to find d, r, and z

$$2376 = d^3 \cdot r^1 \cdot z^3$$

a	d=2, r=11, z=5	**b**	d=2, r=11, z=7
c	d=11, r=3, z=13	**d**	d=2, r=3, z=7
e	d=2, r=11, z=3		