

7.2 Practice

Directions: Roll the die enough times to fill in the boxes to create a problem. Then, simplify it.

1) $(4m^{\boxed{4}})^{\boxed{5}}$ $4^5 m^{20}$	2) $(\boxed{2}w^{\boxed{3}})^{\boxed{1}}$ $2^1 w^3$	3) $(a^{\boxed{1}})^{\boxed{5}} \cdot a^{\boxed{2}}$ $a^5 \cdot a^2 = a^7$
4) $\frac{4^{\boxed{1}}}{4^{\boxed{5}}} = \frac{1}{4^4}$	5) $\frac{(-3)^{\boxed{1}}}{(-3)^{\boxed{5}}} = \frac{1}{3^4}$	6) $\frac{j^{\boxed{2}}}{j^{\boxed{2}}} = j^0 = 1$
7) $\frac{p^{\boxed{1}} p^{\boxed{2}}}{p^{\boxed{2}}} = \frac{p^3}{p^2} = p^1$	8) $\frac{k^{\boxed{1}}}{k^{\boxed{6}} j^{\boxed{-5}}} = \frac{3^5}{4^7}$	9) $h^{\boxed{4}} \cdot h^{\boxed{5}} = h^9$
10) $(\boxed{6}a^{\boxed{4}}b^{\boxed{1}}c)^{\boxed{4}}$ $6^4 a^{16} b^4 c^4$	11) $(2^{\boxed{2}})^{\boxed{3}} = 2^{6.0}$	12) $1^{\boxed{1}} \cdot \boxed{}^{\boxed{1}}$
13) $\boxed{}^0 \cdot \boxed{}^{\boxed{1}}$	14) $3^{\boxed{-1}} \cdot 3^{\boxed{1}}$	15) create your own!

group 2

Name: _____

Group 2

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7.2 Practice

Directions: Roll the die enough times to fill in the boxes to create a problem. Then, simplify it.

1) $(4m^{\boxed{2}})^{\boxed{2}}$ $4^2 m^4$	2) $(\boxed{4}w^{\boxed{2}})^{\boxed{2}}$ $4^2 m^4$	3) $(a^{\boxed{4}})^{\boxed{5}} \cdot a^{\boxed{1}}$ a^{21}
4) $\frac{4^{\boxed{5}}}{4^{\boxed{5}}}$ 1	5) $\frac{(-3)^{\boxed{4}}}{(-3)^{\boxed{6}}}$ $\frac{1}{-3^2}$	6) $\frac{j^{\boxed{3}}}{j^{\boxed{6}}}$ $j^{\frac{1}{3}}$
7) $\frac{p^{\boxed{6}} p^{\boxed{2}}}{p^{\boxed{7}}}$ p^7	8) $\frac{k^{\boxed{1}}}{k^{\boxed{1}} j^{\boxed{-}}}$ $k \cdot j^{-6}$?	9) $h^{\boxed{6}} \cdot h^{\boxed{1}}$ h^7
10) $(\boxed{6}a^{\boxed{1}}b^{\boxed{4}}c)^{\boxed{2}}$ $6^2 a^2 b^8 c^2$	11) $(2^{\boxed{6}})^{\boxed{0}}$ 2^6	12) $1^{\boxed{9}} \cdot \boxed{6}^{\boxed{3}}$
13) $\boxed{3}^0 \cdot \boxed{1}^{\boxed{1}}$ 1	14) $3^{\boxed{-3}} \cdot 3^{\boxed{2}}$ $\frac{1}{3^{-1}} \cdot \frac{1}{3}$	15) create your own!

7.2 Practice

Directions: Roll the die enough times to fill in the boxes to create a problem. Then, simplify it.

1) $(4m^{\boxed{3}})^{\boxed{2}}$ $4^2 m^6$	2) $(\boxed{3}w^{\boxed{4}})^{\boxed{4}}$ $3^4 w^{16}$	3) $(a^{\boxed{4}})^{\boxed{2}} \cdot a^{\boxed{1}}$ a^9
4) $\frac{4^{\boxed{6}}}{4^{\boxed{1}}}$ 4^5	5) $\frac{(-3)^{\boxed{2}}}{(-3)^{\boxed{5}}}$ $\frac{-3^{-3}}{-3^3}$	6) $\frac{j^{\boxed{5}}}{j^{\boxed{6}}}$ j^{-1}
7) $\frac{p^{\boxed{2}} p^{\boxed{2}}}{p^{\boxed{3}}}$ $\frac{p^4}{p^3} = p^1$	8) $\frac{k^{\boxed{1}}}{k^{\boxed{1}} j^{\boxed{-}}}$	9) $h^{\boxed{1}} \cdot h^{\boxed{1}}$
10) $(\boxed{} a^{\boxed{}} b^{\boxed{}} c)^{\boxed{}}$	11) $(2^{\boxed{}}) 0^{\boxed{}}$	12) $1^{\boxed{}} \cdot \boxed{}^{\boxed{}}$
13) $\boxed{}^0 \cdot \boxed{}^{\boxed{}}$	14) $3^{\boxed{-}} \cdot 3^{\boxed{}}$	15) create your own!

Name: _____

Group 4

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7.2 Practice

Directions: Roll the die enough times to fill in the boxes to create a problem. Then, simplify it.

1)

$$(4m^{\boxed{5}})^{\boxed{4}}$$

$$4^4 m^{20}$$

2)

$$(\boxed{2}w^{\boxed{1}})^{\boxed{2}}$$

$$2^2 w^2$$

3)

$$(a^{\boxed{4}})^{\boxed{3}} \cdot a^{\boxed{4}}$$

$$a^{12} \cdot a^4$$

$$a^{16}$$

4)

$$\frac{4^{\boxed{5}}}{4^{\boxed{4}}} \cdot \frac{1}{4^{\boxed{1}}}$$

5)

$$\frac{(-3)^{\boxed{2}}}{(-3)^{\boxed{6}}} \cdot \frac{3^{\boxed{4}}}{3^{\boxed{2}}}$$

$$\frac{3^4}{3^4}$$

6)

$$\frac{j^{\boxed{1}}}{j^{\boxed{6}}} \cdot \frac{1}{j^{\boxed{5}}}$$

7)

$$\frac{p^{\boxed{2}} p^{\boxed{1}}}{p^{\boxed{2}}} \cdot \frac{p^3}{p^2} \cdot \frac{p^1}{1}$$

8)

$$\frac{k^{\boxed{4}}}{k^{\boxed{6}} j^{\boxed{-4}}}$$

9)

$$h^{\boxed{4}} \cdot h^{\boxed{1}}$$

$$h^5$$

10)

$$(\boxed{4}a^{\boxed{2}}b^{\boxed{4}}c)^{\boxed{2}}$$

$$4^4 a^8 b^8 c^2$$

11)

$$(2^{\boxed{6}})^{\boxed{3}}$$

$$2^{18}$$

12)

$$1^{\boxed{2}} \cdot \boxed{4}^{\boxed{2}}$$

$$4^4$$

13)

$$\boxed{3}^0 \cdot \boxed{6}^{\boxed{3}}$$

$$18^0 = 1$$

14)

$$3^{\boxed{-5}} \cdot 3^{\boxed{2}}$$

$$3^{\frac{1}{3^2}}$$

15) create your own!

7.2 Practice

Directions: Roll the die enough times to fill in the boxes to create a problem. Then, simplify it.

1) $(4m^{\boxed{1}})^{\boxed{1}}$?	2) $(\boxed{6}w^{\boxed{6}})^{\boxed{6}}$ $6w^{36}$	3) $(a^{\boxed{5}})^{\boxed{3}} \cdot a^{\boxed{3}}$ a^{18}
4) $\frac{4^{\boxed{5}}}{4^{\boxed{2}}}$ 4^3	5) $\frac{(-3)^{\boxed{2}}}{(-3)^{\boxed{2}}}$ $(-3)^1$	6) $\frac{j^{\boxed{4}}}{j^{\boxed{3}}}$ j^1
7) $\frac{p^{\boxed{1}} p^{\boxed{1}}}{p^{\boxed{1}}} = \frac{p^2}{p^1}$	8) $\frac{k^{\boxed{1}}}{k^{\boxed{1}} j^{\boxed{-1}}}$	9) $h^{\boxed{1}} \cdot h^{\boxed{1}}$
10) $(\boxed{} a^{\boxed{}} b^{\boxed{}} c)^{\boxed{}}$	11) $(2^{\boxed{}}) 0^{\boxed{}}$	12) $1^{\boxed{}} \cdot \boxed{}^{\boxed{}}$
13) $\boxed{}^0 \cdot \boxed{}^{\boxed{}}$	14) $3^{\boxed{-1}} \cdot 3^{\boxed{}}$	15) create your own!

Name:

Group 6

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7.2 Practice

Directions: Roll the die enough times to fill in the boxes to create a problem. Then, simplify it.

1) $(4m^{\boxed{5}})^{\boxed{5}}$ $4^5 m^{25}$	2) $(\boxed{1}w^{\boxed{1}})^{\boxed{3}}$ $1^3 w^3$	3) $(a^{\boxed{6}})^{\boxed{6}} \cdot a^{\boxed{6}}$ $a^{36} \cdot a^6 = a^{42}$
4) $\frac{4^{\boxed{5}}}{4^{\boxed{2}}}$ 4^3	5) $\frac{(-3)^{\boxed{5}}}{(-3)^{\boxed{2}}}$ $(-3)^3$	6) $\frac{j^{\boxed{5}}}{j^{\boxed{3}}}$ j^2
7) $\frac{p^{\boxed{2}} p^{\boxed{2}}}{p^{\boxed{6}}}$ $\frac{p^4}{p^6} = \frac{1}{p^2}$	8) $\frac{k^{\boxed{1}}}{k^{\boxed{1}} j^{\boxed{-9}}}$ $\frac{k^1}{j^{-9}}$	9) $h^{\boxed{6}} \cdot h^{\boxed{6}}$ h^{12}
10) $(\boxed{2}a^{\boxed{2}}b^{\boxed{3}}c)^{\boxed{3}}$ $2^3 a^6 b^9 c^3$	11) $(2^{\boxed{3}})^{\boxed{0}}$ 0	12) $1^{\boxed{3}} \cdot \boxed{4}^{\boxed{4}}$?
13) $\boxed{9}^0 \cdot \boxed{9}^{\boxed{5}}$ 9^5	14) $3^{\boxed{-1}} \cdot 3^{\boxed{6}}$ 3^5	15) create your own! $6^2 \cdot 6^3$ 6^5

7.2 Practice

Directions: Roll the die enough times to fill in the boxes to create a problem. Then, simplify it.

1) $(4m^{\boxed{2}})^{\boxed{1}}$ $4^1 m^2$	2) $(\boxed{2}w^{\boxed{1}})^{\boxed{5}}$ $2^5 w^5$	3) $(a^{\boxed{5}})^{\boxed{2}} \cdot a^{\boxed{3}}$ $a^{10} \cdot a^3 = a^{13}$
4) $\frac{4^{\boxed{5}}}{4^{\boxed{5}}} = 4^{5-5} = \boxed{1}$	5) $\frac{(-3)^{\boxed{3}}}{(-3)^{\boxed{4}}} = 3^{3-4} = \frac{-3^{-1}}{1} = \boxed{\frac{1}{-3}}$	6) $\frac{j^{\boxed{2}}}{j^{\boxed{4}}} = \boxed{\frac{1}{j^2}}$
7) $\frac{p^{\boxed{6}} p^{\boxed{3}}}{p^{\boxed{5}}} = \boxed{p^4}$	8) $\frac{k^{\boxed{5}}}{k^{\boxed{1}} j^{\boxed{-4}}} = \boxed{1}$	9) $h^{\boxed{3}} \cdot h^{\boxed{1}} = \boxed{h^4}$
10) $(\boxed{3}a^{\boxed{3}}b^{\boxed{5}}c)^{\boxed{1}}$ $3^1 a^3 b^5 c^1$	11) $(2^{\boxed{5}})^{\boxed{0}} = ?$	12) $1^{\boxed{6}} \cdot \boxed{1}^{\boxed{1}}$
13) $\boxed{1}^0 \cdot \boxed{5}^{\boxed{1}}$	14) $3^{\boxed{-6}} \cdot 3^{\boxed{6}}$ $3^0 = \boxed{1}$	15) create your own!