

7.2 Practice

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

1) $(4m^{\boxed{1}})^{\boxed{3}}$ $4^3 m^3$	2) $(\boxed{4}w^{\boxed{4}})^{\boxed{4}}$ $4^4 w^{16}$	3) $(a^{\boxed{1}})^{\boxed{4}} \cdot a^{\boxed{6}}$ $a^4 a^6 = a^{10}$
4) $\frac{4^{\boxed{3}}}{4^{\boxed{3}}}$ $4^0 = 1$	5) $\frac{(-3)^{\boxed{6}}}{(-3)^{\boxed{1}}}$ -3^5	6) $\frac{j^{\boxed{2}}}{j^{\boxed{1}}}$ j^1
7) $\frac{p^{\boxed{2}} p^{\boxed{3}}}{p^{\boxed{4}}}$ p^5	8) $\frac{k^{\boxed{4}}}{k^{\boxed{1}} j^{\boxed{-3}}}$ $k^3 \frac{j^3}{k^3}$	9) $h^{\boxed{3}} \cdot h^{\boxed{1}}$ h^4
10) $(\boxed{5}a^{\boxed{4}}b^{\boxed{1}}c)^{\boxed{1}}$ $5a^4 b^1 c^1$	11) $(2^{\boxed{5}})^{\boxed{0}}$ 2^5	12) $1^{\boxed{6}} \cdot \boxed{5}^{\boxed{1}}$ 5
13) $\boxed{6}^0 \cdot \boxed{1}^{\boxed{5}}$	14) $3^{\boxed{-5}} \cdot 3^{\boxed{3}}$	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) $(4m^{\boxed{1}})^{\boxed{5}}$ $4^5 m^5$	2) $(\boxed{5}w^{\boxed{1}})^{\boxed{5}}$ $5^5 w^5$	3) $(a^{\boxed{2}})^{\boxed{4}} \cdot a^{\boxed{6}}$ a^{14}
4) $\frac{4^{\boxed{6}}}{4^{\boxed{2}}}$ 4^4	5) $\frac{(-3)^{\boxed{6}}}{(-3)^{\boxed{4}}}$ $\frac{1}{3^2}$	6) $\frac{j^{\boxed{2}}}{j^{\boxed{4}}}$ $\frac{1}{j^2}$
7) $\frac{p^{\boxed{6}} p^{\boxed{4}}}{p^{\boxed{1}}}$ p^9	8) $\frac{k^{\boxed{4}}}{k^{\boxed{4}} j^{\boxed{-4}}}$ $\frac{j^4}{1}$	9) $h^{\boxed{1}} \cdot h^{\boxed{5}}$ h^6
10) $(\boxed{1}a^{\boxed{2}}b^{\boxed{5}}c)^{\boxed{6}}$ $1^6 \cdot a^{12} \cdot b^{30} \cdot c^6$	11) $(2^{\boxed{4}})^{\boxed{0}}$ 2^0	12) $1^{\boxed{3}} \cdot \boxed{}^{\boxed{5}}$ $1^3 \cdot 5^5$
13) $\boxed{6}^0 \cdot \boxed{3}^{\boxed{1}}$ $1 \cdot 3^1$ 3	14) $3^{\boxed{-5}} \cdot 3^{\boxed{6}}$ 3^1 ok	15) create your own! $\boxed{5}^{\boxed{2}} \cdot H^{\boxed{3}}$ $5^2 \cdot H^3$

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

1) $(4m^{\boxed{6}})^{\boxed{11}}$ $4^{66}m^{66}$	2) $(\boxed{5}w^{\boxed{9}})^{\boxed{8}}$ 5^8w^{72}	3) $(a^{\boxed{4}})^{\boxed{6}} \cdot a^{\boxed{6}}$ a^{30}
4) $\frac{4^{\boxed{5}}}{4^{\boxed{3}}}$ 4^2	5) $\frac{(-3)^{\boxed{6}}}{(-3)^{\boxed{5}}}$ $(-3)^1 = -3$	6) $\frac{j^{\boxed{6}}}{j^{\boxed{2}}}$ $= j^4$
7) $\frac{p^{\boxed{6}}p^{\boxed{5}}}{p^{\boxed{3}}}$ p^8	8) $\frac{k^{\boxed{6}}}{k^{\boxed{3}}j^{\boxed{-5}}}$ k^3j^5	9) $h^{\boxed{1}} \cdot h^{\boxed{1}}$ h^2
10) $(\boxed{3}a^{\boxed{5}}b^{\boxed{2}}c)^{\boxed{6}}$ $?$	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!

7.2 Practice

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

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

7.2 Practice

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

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

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

1) $(4m^{\boxed{5}})^{\boxed{1}}$ $4m^5$	2) $(\boxed{1}w^{\boxed{4}})^{\boxed{2}}$ $1w^8$	3) $(a^{\boxed{5}})^{\boxed{4}} \cdot a^{\boxed{1}}$ $a^{20} \cdot a^1 = a^{21}$
4) $\frac{4^{\boxed{6}}}{4^{\boxed{2}}} = 44$	5) $\frac{(-3)^{\boxed{5}}}{(-3)^{\boxed{1}}}$ $(-3)^4$	6) $\frac{j^{\boxed{5}}}{j^{\boxed{5}}}$ $j^0 = 1$
7) $\frac{p^{\boxed{5}} p^{\boxed{2}}}{p^{\boxed{4}}}$ p^7 $p^3 \cdot p^4$	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) $(2^{\boxed{1}})^0$ $2^3 0$	12) $1^{\boxed{1}} \cdot \boxed{}^{\boxed{}}$
13) $\boxed{}^0 \cdot \boxed{}^{\boxed{}}$	14) $3^{\boxed{-}} \cdot 3^{\boxed{}}$	15) create your own!

Name: _____

Group 2

(3)

7.2 Practice

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

1)

$$(4m^{\boxed{4}})^{\boxed{6}}$$

$$4^6 m^{24}$$

2)

$$(\boxed{9}w^{\boxed{8}})^{\boxed{5}}$$

$$9^5 w^{40}$$

3)

$$(a^{\boxed{8}})^{\boxed{4}} \cdot a^{\boxed{0}}$$

$$a^{41}$$

4)

$$\frac{4^{\boxed{6}}}{4^{\boxed{6}}} = 1$$

5)

$$\frac{(-3)^{\boxed{4}}}{(-3)^{\boxed{4}}} = 0$$

6)

$$\frac{j^{\boxed{9}}}{j^{\boxed{5}}} = j^4$$

7)

$$\frac{p^{\boxed{7}} p^{\boxed{6}}}{p^{\boxed{5}}} = p^8$$

8)

$$\frac{k^{\boxed{8}}}{k^{\boxed{4}} j^{\boxed{-6}}} = 2$$

9)

$$h^{\boxed{6}} \cdot h^{\boxed{12}} = h^{18}$$

10)

$$(\boxed{11}a^{\boxed{7}}b^{\boxed{3}}c)^{\boxed{10}}$$

$$11^{10} a^{70} b^{30} c^{10}$$

11)

$$(2^{\boxed{4}})^{\boxed{0}}$$

$$2^{10}$$

12)

$$1^{\boxed{3}} \cdot \boxed{11}^{\boxed{8}}$$

$$1^3 \cdot 11^8$$

13)

$$\boxed{11}^0 \cdot \boxed{11}^{\boxed{4}}$$

$$11^4$$

14)

$$3^{\boxed{-3}} \cdot 3^{\boxed{4}}$$

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

15) create your own!

$$1^{(0)} 1^{(0)}$$

$$0$$

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