

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1)  $3h \cdot 8h^{-2}$

8)  $9k^{-6}h^4 \cdot 5kh^{-4}$

2)  $4^6 \cdot 4^2$

9)  $3 \cdot 3^2$

3)  $\left(\frac{1}{s}\right)^2 \cdot \left(\frac{1}{s}\right)^6$

10)  $h \cdot h^6$

4)  $8n \cdot 3n^3$

11)  $hw \cdot 3h^6w^4$

5)  $8s^6 \cdot 4s^{-5}z^3$

12)  $g^5c^{-2} \cdot 4g^{-3}c^2 \cdot 7gc^4$

6)  $9^{-6} \cdot 9^6$

13)  $3s^5 \cdot 6s^{-2}$

7)  $w^6 \cdot w^{-4} \cdot w^{-6}$

14)  $h^4 \cdot h^2$



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## Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1)  $3h \cdot 8h^{-2}$   
 $\frac{24}{h}$

8)  $9k^{-6}h^4 \cdot 5kh^{-4}$   
 $\frac{45}{k^5}$

2)  $4^6 \cdot 4^2$   
 $4^8$

9)  $3 \cdot 3^2$   
 $3^3$

3)  $\left(\frac{1}{s}\right)^2 \cdot \left(\frac{1}{s}\right)^6$   
 $\left(\frac{1}{s}\right)^8$

10)  $h \cdot h^6$   
 $h^7$

4)  $8n \cdot 3n^3$   
 $24n^4$

11)  $hw \cdot 3h^6w^4$   
 $3h^7w^5$

5)  $8s^6 \cdot 4s^{-5}z^3$   
 $32s z^3$

12)  $g^5c^{-2} \cdot 4g^{-3}c^2 \cdot 7gc^4$   
 $28g^3c^4$

6)  $9^{-6} \cdot 9^6$   
 $1$

13)  $3s^5 \cdot 6s^{-2}$   
 $18s^3$

7)  $w^6 \cdot w^{-4} \cdot w^{-6}$   
 $\frac{1}{w^4}$

14)  $h^4 \cdot h^2$   
 $h^6$

