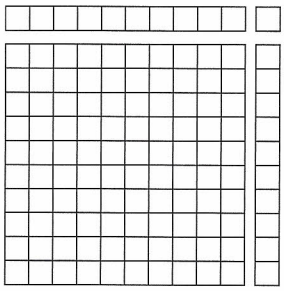
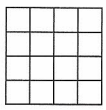
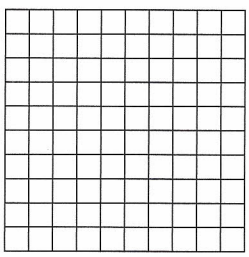
Build; then write the number with an exponent. The first two are done for you.

1.  $= 3^2$

2.  $= 11^2$

3.  $=$ _____

4.  $=$ _____

Rewrite each number without an exponent.

5. $5^2 =$ ____

6. $12^2 =$ ____

7. $4^3 =$ ____

8. $6^1 =$ ____

9. $4^2 =$ ____

10. $100^1 =$ ____

Write the missing exponent. The first one is done for you.

11. $6^{2} = 36$

12. $2^{\_\_} = 8$

13. $5^{\_\_} = 25$

14. $2 \times 2 \times 2 \times 2 \times 2 = 2^{\_\_}$

15. $8 \times 8 = 8^{\_\_}$

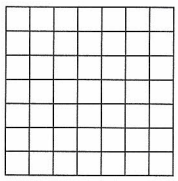
16. $1 \times 1 \times 1 = 1^{\_\_}$

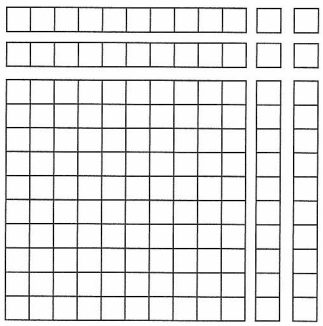
Express 4^2 at least two ways.

17.

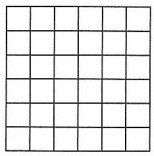
18.

Build; then write the number with an exponent.

1.  = _____

2.  = _____

3.  = _____

4.  = _____

Rewrite each number without an exponent.

5. 2^4 = ____

6. 1^2 = ____

7. 10^2 = ____

8. 8^1 = ____

9. 9^2 = ____

10. 3^3 = ____

Write the missing exponent.

11. $2^{\_\_} = 2$

12. $8^{\_\_} = 64$

13. $2^{\_\_} = 16$

14. $9 \times 9 \times 9 = 9^{\_\_}$

15. $6 \times 6 \times 6 \times 6 = 6^{\_\_}$

16. $10 \times 10 = 10^{\_\_}$

Express 5^3 at least two ways.

17.

18.

Rewrite each number without an exponent.

1. 7^2 = ___

2. 12^2 = ____

3. 100^2 = ____

4. 1^4 = ____

5. 9^1 = ____

6. 3^2 = ____

Write the missing exponent.

7. 10— = 100

8. 5— = 125

9. 3— = 27

10. 4 x 4 = 4—

11. 8 x 8 x 8 x 8 = 8—

12. 5 x 5 x 5 = 5—

Express 1^3 at least two ways.

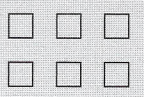
13.

14.

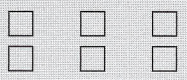
QUICK REVIEW

To find the fraction of a number, you first divide, and then multiply.

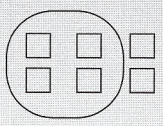
EXAMPLE 1 $\frac{2}{3}$ of 6 = ?



Select 6 blocks.



Divide into 3 equal parts.



Count 2 of those parts.

$\frac{2}{3}$ of 6 = 4

EXAMPLE 2 $\frac{3}{4}$ of 12 = ?

12 ÷ 4 = 3
3 x 3 = 9

$\frac{3}{4}$ so of 12 = 9

Find the fraction of the number. The first one is done for you.

15. $\frac{3}{\cancel{4}}$ of $\cancel{80}$ ^{20} = 60

16. $\frac{1}{3}$ of 6 = ____

17. $\frac{4}{5}$ of 20 = ____

18. $\frac{5}{6}$ of 24 = ____

19. Thirty students tried to answer the question, but only one-half of them got the right answer. How many got the right answer?

20. Sixteen people came to Carrie's birthday party. Seven-eighths of the guests wore her favorite color, which was green. How many guests wore green?

Rewrite each number without an exponent.

1. 2^3 = ____

2. 4^4 = ____

3. 11^2 = ____

4. 8^2 = ____

5. 6^3 = ____

6. 15^1 = ____

Write the missing exponent.

7. 12— = 144

8. 6— = 36

9. 10— = 1,000

10. 1 x 1 x 1 x 1 x 1 = 1—

11. 6 x 6 x 6 = 6—

12. 9 x 9 = 9—

Express 12^2 at least two ways.

13.

14.

Find the fraction of the number.

15. $\frac{3}{8}$ of 32 = ____

16. $\frac{1}{6}$ of 12 = ____

17. $\frac{2}{3}$ of 300 = ____

18. $\frac{1}{4}$ of 72 = ____

19. Six hundred people visited the new store on the first day it was open. Three-fourths of the visitors actually bought something during their visit. How many visitors bought something that day?

20. Mom bought two dozen eggs. One-sixth of the eggs were cracked. How many of the eggs were cracked?