



Name _____ Class _____ Date _____

1 $12 \times 12 \times 12 \times 12 \times 12 \times 12 = 12^6$

True or false?



3 If $10 \times 10 \times 10 \times 10 = 10^4$, then 10^4 must be _____.

- A less than 1,000
- B equal to 410
- C about 40
- D greater than 100



2 $8 \times 8 \times 8 \times 8 = 84$

True or false?



4 If $6 \times 6 \times 6 \times 6 \times 6 = 6^5$ then 6^5 must be _____.

- A less than 200
- B about 30
- C greater than 36
- D more than 8^5



PREVIEW

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Does $5 \times 5 \times 5 = 5^3$ represent how many friends agreed to be part of the circle?

- A yes
- B no

pet shop?

- A $4 + 4 + 4 = 12$
- B $4 \times 3 = 12$
- C $4 \times 4 \times 4 = 4^3$
- D $3 \times 4 = 12$



9 After a storm, 25 people volunteered to collect the rubble strewn all over the town. There was so much to clean up that each of the volunteers went out and found 25 more people to help. If the number of volunteers = n, how would this problem be expressed?

- A $n = 25 + 25$
- B $n = 25^2$
- C $n = 25 \times 25 \times 25$
- D $n = 50$

10 Two fire trucks responded to a fire. The fire was so intense that each truck called for one more truck. Then each of the trucks called for one more back up truck. If n = trucks, how many trucks were at the fire?


- A $n = 2^3$
- B $n = 2 \times 3$
- C $n = 2 + 2 + 2$
- D $n = 2 \times 2$



ANSWER KEY

$12 \times 12 \times 12 \times 12 \times 12 \times 12 = 12^6$

True or false?

A  B  (a)

If $10 \times 10 \times 10 \times 10 = 10^4$, then 10^4 must be _____.

- A less than 1,000
- B equal to 410
- C about 40
- D greater than 100



(d)

$8 \times 8 \times 8 \times 8 = 84$

True or false?

A  B  (b)

If $6 \times 6 \times 6 \times 6 \times 6 = 6^5$ then 6^5 must be _____.

- A less than 200
- B about 30
- C greater than 36
- D more than 8^5



(c)



PREVIEW

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friends agreed to be part of the circle?

- A yes
- B no

- A $4 + 4 + 4 = 12$
- B $4 \times 3 = 12$
- C $4 \times 4 \times 4 = 4^3$
- D $3 \times 4 = 12$



After a storm, 25 people volunteered to collect the rubble strewn all over the town. There was so much to clean up that each of the volunteers went out and found 25 more people to help. If the number of volunteers = n, how would this problem be expressed?

- A $n = 25 + 25$
- B $n = 25^2$
- C $n = 25 \times 25 \times 25$
- D $n = 50$

(b)

Two fire trucks responded to a fire. The fire was so intense that each truck called for one more truck. Then each of the trucks called for one more back up truck. If n = trucks, how many trucks were at the fire?

- A $n = 2^3$
- B $n = 2 \times 3$
- C $n = 2 + 2 + 2$
- D $n = 2 \times 2$

(a)