$\qquad$

Complete each problem and observe the patterns of integer multiplication.

1. $4 \cdot-6=$
2. $(-2 \cdot 5) \cdot 3=$
3. $(-6 \cdot 2)(1 \cdot 3)=$
4. Each problem above has $\qquad$ negative factors.
5. Each product is (positive / negative ).
6. $-9 \cdot-6=$
7. $(-2 \cdot 4) \cdot-3=$
8. $(-5 \cdot-2)(2 \cdot 3)=$
9. Each problem above has $\qquad$ negative factors.
10. Each product is (positive / negative ).
11. $-6 \cdot-7 \cdot-1=$
12. $(-5 \cdot-4) \cdot-3=$
13. $(-5 \cdot-1)(2 \cdot-3)=$
14. Each problem above has $\qquad$ negative factors.
15. Each product is ( positive / negative ).
16. $-9 \cdot-7 \cdot-1 \cdot-1=$
17. $(-2)(-4)(-3)(-1)=$
18. $(-3 \cdot-2)(-7 \bullet-1)=$
19. Each problem above has $\qquad$ negative factors.
20. Each product is (positive / negative ).
21. Draw a conclusion about the product of positive and negative integers.

## Use the conclusion you drew on the previous page to answer the following questions...

22. $-1 \cdot-2 \cdot-3 \cdot-4 \cdot-5 \cdot-6=$
23. $-48 \cdot-1 \cdot-1 \cdot 1 \cdot-1 \cdot 1=$
24. Without solving, Anna says the value of $z$ must be negative.

$$
\frac{-184}{152} \times \frac{-86}{120} \times \frac{54}{89} \times \frac{-749}{126}=z
$$

Is Anna correct? Explain why or why not.
25. Without solving, Drew says the value of $z$ must be negative.

$$
\frac{-187}{152} \times \frac{86}{126} \times \frac{-54}{140} \times \frac{49}{126}=z
$$

Is Drew correct?
Choose the answer below that best describes why Drew is or is not correct?
a. Yes, because the difference of an even number of negative numbers is positive.
b. No, because the difference of an even number of negatives numbers is positive.
c. No, because the product of an even number of negative numbers is positive.
d. Yes, because the product of an even number of negative number is positive.
26. In the expression $p \times q, p>0$ and $q>0$. What must be true?
a. $p \times q$ will always be negative.
b. $p \times q$ may be positive or negative, depending on which number has the larger absolute value.
c. $p \times q$ will always be positive.
d. Not enough information provided.

