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DIVIDING MONOMIALS WORKSHEET III

1) Divide $27x^3$ by $9x^2$.

2) Evaluate: $\frac{15x^4}{3x^2}$

3) On dividing $27p^6$ by $9p^9$ we will get $3p^{15}$.

- a) True
- b) False

4) $\frac{7q^9}{7q^8} = q$

- a) True
- b) False



5) $(66c^5 + 42c^8) / 6c^3$

- a) $11c^2 + 7c^5$
- b) $11c^2 + 42c^5$
- c) $66c^2 + 7c^5$
- d) $11c^2 + 7c^6$

6) Simplify: $42p^3qr/6pq$

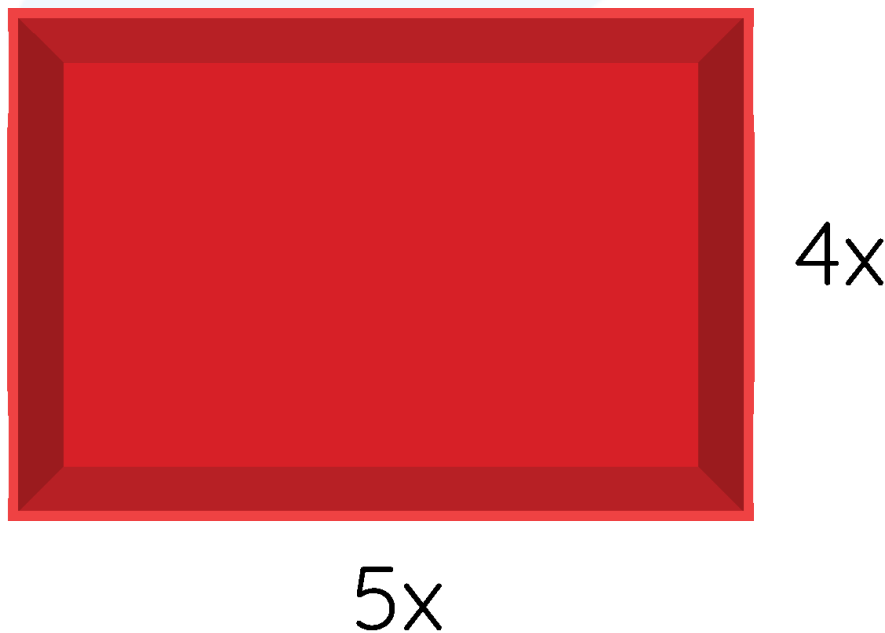
- a) $7p^2qr$
- b) $42p^3qr$
- c) $7p^2q$
- d) $6p^3qr^2$

7) Divide the first polynomial by second: $(-15b^4)/(-3b)$

8) Match the following:

- | | |
|---------------------|-----------|
| a- $35p/7p^2$ | p- $3p^6$ |
| b- $36p/(-4p)$ | q- $6p$ |
| c- $(-27p^7)/(-9p)$ | r- $5/p$ |
| d- $30p^2q/5pq$ | s- -9 |

9) If the length of a rectangle is $5x$ and its width is $4x$. Find its area.



10) Height of a triangle is given by $4y$. If its area is $64xy$, find the length of its base.

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$3x$
2)	$5x^2$
3)	False
4)	True
5)	a) $11c^2 + 7c^5$
6)	a) $7p^2qr$
7)	$5b^3$
8)	a-r b-s c-p d-q
9)	$20x^2$
10)	$16x$

FUN FACT

1. A monomial cannot have variables with negative exponents.
2. When we multiply monomials together, we get a new monomial in return.
3. A monomial is a polynomial with only one term.

