

"What do you get if you cross a snowman with a tiger?"

Simplify the following expressions. The answer to each problem will match a letter that will allow you to figure out the joke.

T 1. $(\sqrt{14})(\sqrt{7}) = \sqrt{7 \cdot 2 \cdot 7} = \boxed{7\sqrt{2}}$

A: $3\sqrt{2}$

E 2. $(3\sqrt{5})(4\sqrt{3}) = \boxed{12\sqrt{15}}$

T: $-180\sqrt{3}$

O 3. $(7\sqrt{6})(\sqrt{10}) = 7\sqrt{60} = 7 \cdot 2\sqrt{15} = \boxed{14\sqrt{15}}$

S: $5x^4\sqrt{2}$

C: $7\sqrt{15}$

I 4. $(-2\sqrt{7})^2 = 4 \cdot 7 = \boxed{28}$

F: $176x^4\sqrt{3x}$

T 5. $(-4\sqrt{5})(3\sqrt{15})(\sqrt{9}) = -12\sqrt{8 \cdot 3 \cdot 5 \cdot 3 \cdot 3} = -12 \cdot 5 \cdot 3\sqrt{3} = \boxed{-180\sqrt{3}}$

E: $12\sqrt{15}$

I: 28

R 6. $(\sqrt{7x})(\sqrt{2x}) = \boxed{x\sqrt{14}}$

R: $x\sqrt{14}$

S 7. $(\sqrt{10x})(\sqrt{5x^7}) = \sqrt{50x^8} = \boxed{5x^4\sqrt{2}}$

T: $7\sqrt{2}$

B 8. $(\sqrt{3x})(4\sqrt{6x^3}) = 4\sqrt{3 \cdot 3 \cdot 2x^4} = 4 \cdot 3x^2\sqrt{2} = \boxed{12x^2\sqrt{2}}$

W: $4x\sqrt{3}$

B: $12x^2\sqrt{2}$

F 9. $(-2\sqrt{11x^5})(4\sqrt{22x})(-\sqrt{6x^3})$
 $-2 \cdot 4 \cdot -1 \sqrt{11 \cdot 11 \cdot 2 \cdot 2 \cdot 3x^9}$
 $8 \cdot 11 \cdot 2x^4 \sqrt{3x}$
 $176x^4\sqrt{3x}$

O: $14\sqrt{15}$

H: $x\sqrt{5}$

F / 9 **R** / 6 **O** / 3 **S** / 7 **T** / 1 **B** / 8 **I** / 4 **T** / 5 **E** / 2

Answer: Frostbite