Which of the following is equivalent to $(a^8)^{24}$?

CORRECT ANSWER

 a^{192}

DISTRACTORS

QUESTION

For all nonzero values of x and y, which of the following expressions is equivalent to $-\frac{36x^4y^3}{4xy}$?

CORRECT ANSWER

$$-9x^{3}y^{2}$$

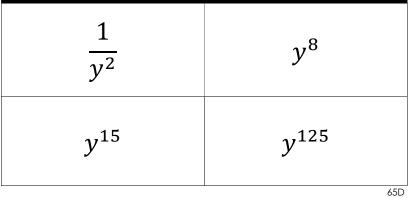
DISTRACTORS

For any nonzero value of y, $(y^{-5})^3 = ?$

CORRECT ANSWER

 $\frac{1}{y^{15}}$

DISTRACTORS



QUESTION

Which of the following is equivalent to $(3x^3)^{-2}$?

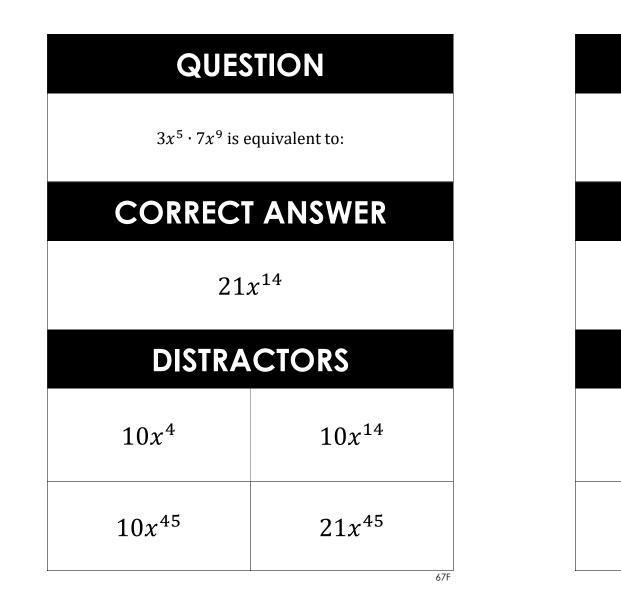
CORRECT ANSWER

 $\frac{1}{9x^6}$

DISTRACTORS

$\frac{1}{9x^9}$	$\frac{3}{x^6}$
$-6x^{3}$	-9x ⁶

60E



For all x, $2(-3x)^2$ is equivalent to:

CORRECT ANSWER

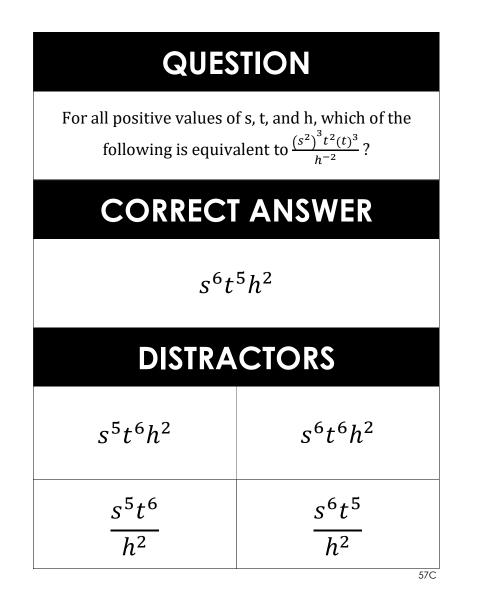
 $18x^{2}$

DISTRACTORS

 $-6x^{2}$

$-36x^{2}$	$-18x^{2}$

 $36x^{2}$



Which of the following expressions is equivalent to

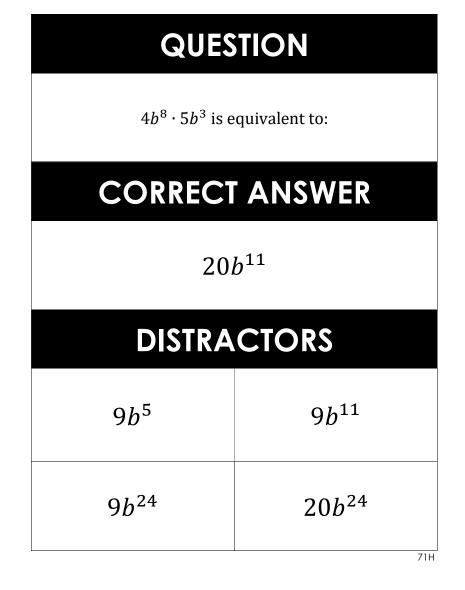
 $\frac{(3x)^2}{x^5}$?

CORRECT ANSWER

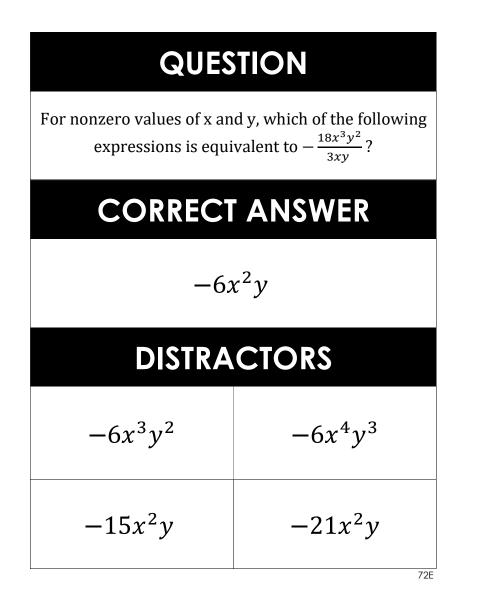
 $\frac{9}{x^3}$

DISTRACTORS

$\frac{3}{x^3}$	$\frac{6}{x^3}$
3 <i>x</i> ⁷	6x ⁷



QUESTION For all positive real numbers x, which of the following expressions is equivalent to $\frac{\left(\frac{x^{24}}{x^{6}}\right)}{\left(\frac{1}{x^{2}}\right)}$? **CORRECT ANSWER** x^{20} DISTRACTORS x^2 x^8 x^{12} x^{16}



 $3x^9 \cdot 5x^9$ is equivalent to:

CORRECT ANSWER

 $15x^{18}$

DISTRACTORS

$8x^{18}$	8 <i>x</i> ⁸¹
15 <i>x</i> ⁹	15 <i>x</i> ⁸¹

72F

Which of the following expressions is equivalent to $(x^5y^3z^2)(x^4y^3z^6)$ for all real values of x, y, and z?

CORRECT ANSWER

 $x^9y^6z^8$

DISTRACTORS

x ⁹ y ⁹ z ⁸	$x^{20}y^{6}z^{8}$
$x^{20}y^9z^{12}$	$x^{21}y^6z^{12}$

B04

QUESTION

For all a > 0, which of the following expressions is equal to a^{-2} ?

CORRECT ANSWER

 $\frac{1}{a^2}$

DISTRACTORS

-2a	$-a^{2}$
$\frac{1}{2a}$	$\frac{1}{\sqrt{a}}$

QUESTION Which of the following expressions is equivalent to $(3+x)^{-100}$? **CORRECT ANSWER** 1 $\overline{(3+x)^{100}}$ DISTRACTORS $-3^{100} - x^{100}$ -300 - 100x1 $\frac{1}{3^{100}} + \frac{1}{x^{100}}$ $(3x)^{100}$ A11

QUESTION

Whenever x and y are nonzero, $\frac{(8x^5y^4)(6x^{13}y^3)}{16x^6y^{14}} = ?$

CORRECT ANSWER



DISTRACTORS

$3x^3y^2$	$\frac{3x^3}{y^2}$
$\frac{3x^6}{16y^{21}}$	$\frac{3x^{59}}{y^2}$

73G

Which of the following is equivalent to $(a^3)^{21}$?

CORRECT ANSWER

a⁶³

DISTRACTORS

63 <i>a</i>	24a
3a ²¹	a ²⁴

A09