Why Did the Cat Buy a Computer?

Simplify the expression, if possible, then find your answer below. Write the letter of the exercise in the box that contains the number of the answer.

H $\frac{15a}{25a^2}$

E $\frac{16a^3}{12a}$

A $\frac{ab^2}{a^2b}$

I $\frac{21a^5b^4}{49a^2b^3}$

U $\frac{9a^2b^3}{36a^2b^5}$

Answers

5 $\frac{3a^3b}{7}$ **7** $\frac{4a^2}{3}$

21 $\frac{3}{5a}$ **27** $\frac{3a^2}{7b}$

29 $\frac{1}{4b^2}$ **15** $\frac{b}{a}$

17 cannot be simplfied

E $\frac{x(x+1)}{x^2(x-1)}$

T $\frac{x(x+1)}{x^2(x+1)}$

O $\frac{x^2+1}{x^2(x+1)}$

E $\frac{x^2+1}{x^2(x^2+1)}$

H $\frac{x(x+1)}{x+1}$

Answers

23 $\frac{1}{x}$ **9** $\frac{x+1}{x}$

24 x **2** $\frac{x+1}{x(x-1)}$

31 $\frac{1}{x^2}$ **26** $\frac{x}{x+1}$

11 cannot be simplfied

I $\frac{c^2+cd}{cd}$

D $\frac{c^2d-cd^2}{cd}$

H $\frac{7c^2d-2cd^2}{7c-2d}$

E $\frac{(c+d)(c-d)}{(c+d)^2}$

T $\frac{cd(c+d)}{(c+d)(c-d)}$

Answers

8 $c-d$ **25** $\frac{c-d}{c+d}$

3 $\frac{cd}{c+d}$ **19** $\frac{c+d}{d}$

10 $\frac{cd}{c-d}$ **1** cd

14 cannot be simplfied

W $\frac{(n+2)(m-5)}{m-5}$

S $\frac{n+2(m-5)}{m-5}$

P $\frac{(n+9)(n-4)}{(2n+9)(n-4)}$

L $\frac{9n(n-4)}{4n(n+4)}$

T $\frac{9n+4}{(9n+4)(9n-4)}$

Answers

17 $\frac{1}{9n+4}$ **18** $n+2$

13 $\frac{n+9}{2n+9}$ **22** $\frac{n}{n+9}$

20 $\frac{1}{9n-4}$ **4** $\frac{9(n-4)}{4(n+4)}$

30 cannot be simplfied

Y $\frac{(w-3)(w-8)}{8w(w-3)}$

O $\frac{24w^2(w-3)}{3w^3(w-8)}$

K $\frac{w-3}{w-3(y-8)}$

L $\frac{w-8}{8-w}$

M $\frac{w^2(w-3)}{3-w}$

Answers

27 $-w^2$ **28** $\frac{8(w-3)}{w(w-8)}$

14 -1 **12** $\frac{w^2}{w-8}$

26 $\frac{w}{7}$ **16** $\frac{w-8}{8w}$

6 cannot be simplfied

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

What Happened To the Guy Who Jumped From a 100-foot Tower Into a Large Glass of Root Beer?

Simplify the expression, then find your answer. Write the letter of the answer in each box with the exercise number. If the answer has a ●, shade in the box instead of writing a letter in it.

1. $\dfrac{3x+12}{x+4}$
2. $\dfrac{x-5}{8x-40}$
3. $\dfrac{x^2-9}{x+3}$
4. $\dfrac{x^2-49}{3x-21}$
5. $\dfrac{x^2+2x}{x^2-9x}$
6. $\dfrac{a^2+8a+15}{a^2+7a+10}$
7. $\dfrac{a^2+4a-12}{a^2-5a+6}$
8. $\dfrac{a^2+9a+20}{a^2-25}$
9. $\dfrac{5a-15}{a^2+5a-24}$
10. $\dfrac{a-9}{a^2-9a}$
11. $\dfrac{2n^3+8n^2}{5n^2+20n}$
12. $\dfrac{n^2-9n+14}{3n^2-12}$
13. $\dfrac{6n^2+18n}{2n^3-18n}$
14. $\dfrac{n^2-5n-36}{n^2+8n+16}$
15. $\dfrac{2n^2+7n+5}{6n^3+15n^2}$

Answers 1-5

- S $x-3$
- V $\dfrac{x+2}{x-3}$
- B $\dfrac{x-7}{7}$
- G 3
- O $\dfrac{1}{8}$
- I $\dfrac{x+7}{3}$
- ● $\dfrac{x+2}{x-9}$
- Y $\dfrac{x+3}{3}$

Answers 6-10

- P $\dfrac{5}{a-3}$
- H $\dfrac{a+4}{a-5}$
- K $\dfrac{a+3}{a+2}$
- R $\dfrac{1}{a}$
- ● $\dfrac{5}{a+8}$
- C $\dfrac{a+4}{a}$
- U $\dfrac{a+3}{a-5}$
- A $\dfrac{a+6}{a-3}$

Answers 11-15

- F $\dfrac{n-9}{n+4}$
- D $\dfrac{n-7}{3(n+2)}$
- L $\dfrac{n+1}{n-3}$
- ● $\dfrac{2n}{n+2}$
- T $\dfrac{3}{n-3}$
- N $\dfrac{n+1}{3n^2}$
- W $\dfrac{2n}{5}$
- E $\dfrac{n-2}{n+3}$

15	2	13	8	4	15	1	9	4	13	5	11	7	3	5	7	9	3	2	14	13	9	12	10	4	15	6