



Apply the order of operations with rational numbers

- 1** Find the answer when this fraction is raised to its exponent

$$\left(-\frac{10}{5}\right)^2$$

A $-\frac{8}{5}$

B $-\frac{20}{625}$

C $-\frac{1,000}{625}$

D $-\frac{8}{10}$

E $\frac{100}{25}$

F $-\frac{20}{125}$

- 2** Which operation should be done first in this equation?

$$3 \div 6^3 \times 2 = ?$$

A 6^3

B $3 \div 6$

C 6×2

- 3** Figure out the answer by using the correct order of operations

$$42 - 6 + 5^2 - 3 = ?$$

A 46

B 55

C 26

D 21

E 58

F 64

- 4** What is the value of this equation when $d=7$, $p=-2$, $n=5$

$$-5\left(\frac{6d-6n}{2p}\right)$$

A $6d - 15$

B -302

C -2

D 302

E $d^6 + 15$

F 15

- 5** What is the value of this equation when $p=2$, $y=3$, $n=4$

$$\left(\frac{2p+2n}{4y}\right)^2$$

A 44

B 20

C -4

D -44

E -4

F 1

- 6** What is the value of this equation when $p=3$, $d=7$, $m=-2$

$$\frac{6p^2 + 4m^2}{5d}$$

A $6p - 2$

B $3p$

C 89

D 2

E -299

F $2p$

- 7** What is the value of this equation when $c=7$, $p=-3$, $z=2$

$$\frac{6c^2}{3p^2 - 6z^2}$$

A 2

B $98c$

C 285

D 98

E -321

F $2c$



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What is the value of this equation when $z=8$, $m=2$, $b=4$

$$\frac{5z^2}{2m^2 + 2b^2}$$

A	$z^5 + 8$	B	8
C	-3	D	$8z$
E	-328	F	324

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What is the value of this equation when $m=-2$, $r=-6$, $z=7$

$$2\left(\frac{7m + 2z}{6r}\right)$$

A	-3	B	0
C	$-3m$	D	-244
E	$m^7 + -0$	F	$7m - -0$

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What is the value of this equation when $y=3$, $p=5$, $d=2$

$$\left(\frac{2y + 2d}{2p}\right)^2$$

A	28	B	4
C	-2	D	-68
E	1	F	68

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What is the value of this equation when $x=8$, $r=-6$, $z=4$

$$\frac{4x^2 - 4z^2}{4r}$$

A	-400	B	2
C	-5	D	-8
E	$4x - -8$	F	$-8x$

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What is the value of this equation when $b=-8$, $y=2$, $d=4$

$$\frac{4b^2}{7y^2 - 2d^2}$$

A	284	B	$-2b$
C	-3	D	2
E	-64	F	$4b - -64$