

QUESTION 3 Divide the following algebraic expressions.

- a $(-24)x \div 8 =$ _____ b $(-6ab) \div 3a =$ _____
c $38x^2y \div 19x^2 =$ _____ d $(-15x^2) \div (-5x) =$ _____
e $27x^2y^2 \div 9x^2y =$ _____ f $(-16k) \div (-4k) =$ _____
g $(-52x^2) \div (-13) =$ _____ h $(-36y) \div (-3) =$ _____
i $20pq \div -4p =$ _____ j $50mn \div 5m =$ _____

QUESTION 1 Work out the following divisions.

- a $\frac{18a}{6} =$ _____ b $\frac{9pq}{3} =$ _____ c $\frac{12m}{15m^2} =$ _____
d $\frac{15x}{5} =$ _____ e $\frac{21xy}{7x} =$ _____ f $\frac{18a^2}{3a} =$ _____
g $\frac{12a}{6} =$ _____ h $\frac{36x^2}{4x} =$ _____ i $\frac{30y}{10y^2} =$ _____

QUESTION 3 Work out the following divisions.

- a $(-27x^2) \div (3x^2) =$ _____ b $15ab \div (-3a^2) =$ _____
c $16xy \div (-16xy) =$ _____ d $35a^2b^2c^2 \div 5abc =$ _____
e $24ab \div 4a \div 2b =$ _____ f $56t^3 \div 8t^2 =$ _____
g $48x^2y^2 \div 4xy \div 3x =$ _____ h $10ab \div -2a =$ _____
i $15xy \div 6xy =$ _____ j $15abc \div -3bc =$ _____

1 Express these algebraic fractions in simplest form.

- k $\frac{pqr}{qrs}$ l $\frac{6ab}{18a}$ m $\frac{25gh}{30h}$ n $\frac{42x}{49xy}$ o $\frac{36ef}{27fg}$
p $\frac{u^2}{u}$ q $\frac{s}{s^2}$ r $\frac{v^2w}{vw^2}$ s $\frac{36r^2}{45r}$ t $\frac{60cd^2}{35c^2d}$

QUESTION 5 Simplify the following.

- a $\frac{8x \times 9y}{12xy} =$ _____ b $\frac{15a \times 8b}{10ab} =$ _____ c $\frac{8a \times 5b}{3a \times 4b} =$ _____
d $\frac{(6ab)^2 \times ab}{9a^3b} =$ _____ e $\frac{(3a)^2 \times (4b)^2}{24ab} =$ _____ f $\frac{(-2x) \times (-3) \times (-5x)}{-6x \times -5} =$ _____