

Mix Essential skills – non calculator #1

Expand $6(3x + 4)$	Decrease 520 by 32%	Factorise $8a - 6$	Prime numbers between 50 and 60	Solve, $5a + 3 = 4a + 11$	Find 22.5% of 240	Expand and simplify: $3(2a + 4) - 4(2a - 5)$	LCM of 25 and 75
Write as improper fraction $4\frac{2}{3}$	Work out 4.4×0.34	Calculate $4\frac{1}{5} + 2\frac{1}{3}$	Write 24 as a percentage of 40	Expand $4(5 - 3y)$	$\frac{3}{25}$ as a percentage	Solve, $5(3x + 2) = 18$	0.045 as a percentage
Make a the subject $5a + b = c$	Write 45 as a percentage of 75	Square numbers which is also a cube number	Evaluate $4.8 \div 0.6$	HCF of 45 and 60	Calculate $2\frac{4}{5} - 1\frac{2}{3}$	Factorise $a^2 + 8a + 12$	Write as top heavy fraction $5\frac{4}{7}$
Expand and simplify: $5(2a + 3) + 2(4a - 3)$	HCF of 216 and 810	Calculate $\frac{2}{5} \div \frac{1}{4}$	Expand $7(2x + 1)$	Mean of the following 3, 5, 4, 7, 6	Calculate $\frac{7}{9} - \frac{3}{5}$	Calculate $4 \div \frac{5}{7}$	Make a the subject $a^2 - b = c$
Solve $a^2 - a - 20 = 0$	Solve, $3a - 5 = 13$	Factorise $18ab - 3b$	Write 4 as a percentage of 20	Work out 0.23×0.05	Order (smallest first) $\frac{2}{5}, 0.35, 38.2\%$	Expand $a(4a + b)$	$\frac{3}{20}$ as a percentage
Calculate $\frac{3}{5} + \frac{2}{4}$	Evaluate $12 \div 5$	Write as mixed number $\frac{87}{9}$	Factorise $a^2 - 49$	Find the median 4.5, 4.05, 4, 4.3, 4.55	Work out $33 \div 0.3$	LCM of 4, 5 and 6	Write as mixed number $\frac{415}{3}$
Expand $3y(2x + 5y)$	$\frac{7}{35}$ as a percentage	Prime numbers between 100 and 110	Find 12.5% of 180	Calculate $\frac{3}{4} \times \frac{1}{12}$	0.6 as a percentage	Calculate x is the mean is 4 3, 7, x , 1, 6	Solve, $3 = \frac{a + 5}{7}$
0.45 as a fraction	Factorise $x^3y + x$	Solve, $2a = 5a - 18$	Make a the subject $b - 2a = c$	Order (smallest first) $1\frac{1}{5}, 1.15, 105\%$	Expand and simplify: $2(x + 5) + 5(x + 3)$	Increase 45 by 15%	Factorise $a^2 + 2a - 15$