U4 Numeracy Bedmas #1

B – Brackets (□)

E – Exponents $\square^2$, $\square^3$

D – Division ÷

M – Multiplication ×

A – Addition +

S – Subtraction –

Question 1: Calculate

	Working	Answer
(a) $7 + 2 \times 3$		
(e) $20 - 5 \times 2$		
(i) $16 \div 1 - 3$		
(m) $9 + 3 - 2$		
(q) $(7 + 7) \div 2$		
(u) $15 \div (3 + 2)$		

Question 2: Calculate

	Working	Answer
(a) $5 - 2^2$		
(e) $(7 - 2)^2$		
(i) $10 - \sqrt{16}$		

Question 3: Calculate

	Working	Answer
(a) $5 \times 3 + 2 \times 6$		
(e) $8 + (5 - 1) \times 3$		
(i) $7 \times (8 \div 4)^2$		

Question 4: Put brackets around the correct calculation so that the answer is correct.

	Working	Answer
(a) $10 \times 2 + 6 = 80$		
(d) $5 + 2 \times 3 + 1 = 13$		

Question 5: Polynomial – substitute $x = 5$ and $y = 4$ into these expressions:

	Working	Answer
$5x + 3y + x^2 - 3y$		

Question 6: Validate an answer: Substitute $x = 9$ into both sides of this equation

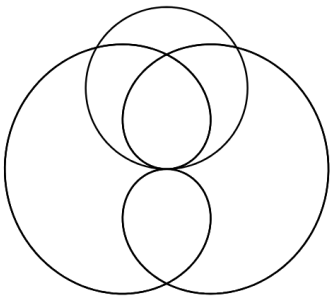
$$8\,(x - 7) = 7\,x - 47$$

left hand side	right hand side

https://www.desmos.com/calculator/8w11q1vzrt

curve to colour made with variable 'b'





G9 Core U4 Numeracy Bedmas #2

B – Brackets (□)

E – Exponents $□^2$, $□^3$

D – Division ÷

M – Multiplication ×

A – Addition +

S – Subtraction –

Question 1: Calculate

	Working	Answer
(b) $9 + 4 \times 2$		
(f) $8 - 2 \times 3$		
(j) $5 + 5 \times 5$		
(n) $20 - 5 + 6$		
(r) $35 - (9 + 3)$		
(v) $9 \times (7 + 4)$		

Question 2: Calculate

	Working	Answer
(b) $7 + 3^2$		
(f) $(4 + 3)^2$		
(j) $\sqrt{(2 + 14)}$		

Question 3: Calculate

	Working	Answer
(b) $9 \div 3 + 15 \times 2$		
(f) $50 - (1 + 4) \times 4$		
(j) $11 + 11 - 6^2 \div 2$		

Question 4: Put brackets around the correct calculation so that the answer is correct.

	Working	Answer
(b) $5 + 5 \div 5 = 2$		
(e) $2 \times 7 + 1 \times 3 = 48$		

Question 5: Polynomial – substitute $x = 10$ and $y = -2$ into this expression:

	Working	Answer
$5x^2 + 3y - 2xy$		

Question 6: Validate an answer: Substitute $x = 10$ into both sides of this equation

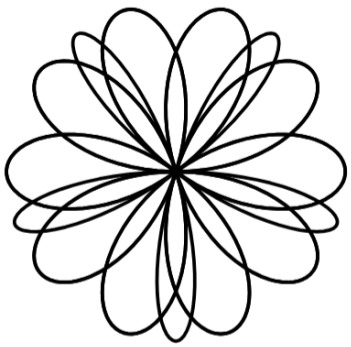
left hand side	$\frac{2x+5}{5} = 11x - 105$	right hand side

https://www.desmos.com/calculator/8w11q1vzrt

curves made with variable 'b'

$b = 2$

−10 10



G9 Core U4 Numeracy Bedmas #3

B – Brackets (□)

E – Exponents $□^2$, $□^3$

D – Division ÷

M – Multiplication ×

A – Addition +

S – Subtraction −

Question 1: Calculate

	Working	Answer
(c) $10 + 2 \times 2$		
(g) $21 - 9 \div 3$		
(k) $13 - 7 \div 1$		
(o) $21 - 17 + 4$		
(s) $40 \times (2 + 3)$		
(w) $90 \div (52 - 7)$		

Question 2: Calculate

	Working	Answer
(c) $9^2 + 1$		
(g) $(1 + 2)^3$		
(k) $\sqrt{4} + 3^2$		

Question 3: Calculate

	Working	Answer
(c) $10 \div 2 - 2 \times 1$		
(g) $19 \times 2 + 5^2$		

Question 4: Put brackets around the correct calculation so that the answer is correct.

	Working	Answer
(c) $18 - 6 \div 2 = 6$		
(f) $9 + 3^2 \times 10 \div 2 = 90$		

Question 5: Polynomial – substitute $x = 1$ and $y = -1$ into this expressions:

	Working	Answer
$12x + 12y + x^2 + y^2$		

Question 6: Validate an answer: Substitute $x = 5$ into both sides of this equation

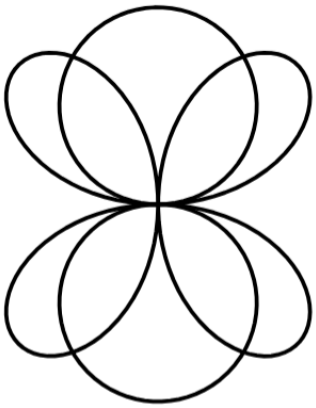
left hand side	$\frac{2x + 10}{5} = \frac{4x + 8}{7}$	right hand side

https://www.desmos.com/calculator/8w11q1vzrt

curves made with variable 'b'

$b = 5$

−10 10



G9 Core U4 Numeracy Bedmas #4

B – Brackets (□)

E – Exponents $□^2$, $□^3$

D – Division ÷

M – Multiplication ×

A – Addition +

S – Subtraction −

Question 1: Calculate

	Working	Answer
(d) $18 + 4 \div 2$		
(h) $100 - 40 \times 2$		
(l) $7 \times 6 - 4$		
(p) $30 \times 4 \div 2$		
(t) $60 \div (1 + 5)$		
(x) $(8 + 9) \times 3$		

Question 2: Calculate

	Working	Answer
(d) $6^2 - 5^2$		
(h) $(2 + 8)^3$		
(l) $2 \times 5 - \sqrt{4}$		

Question 3: Calculate

	Working	Answer
(d) $5 \times (2 + 1) + 4$		
(h) $8^2 + 2 \times 3^2$		

Question 4: Circle the error in the working and write the correct working.

	Correction
Work out $9 + 4 \times 3 + 2$ $= 13 \times 3 + 2$ $= 39 + 2$ $= 41$	

Question 5: Polynomial – substitute $x = 10$ into this expression:

	Working	Answer
$5x^3 + 3x^2 + 7x + 1$		

Question 6: Validate an answer: Substitute $x = 3$ into both sides of this equation

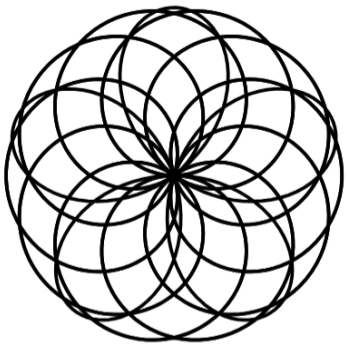
left hand side		right hand side
	$\frac{x+9}{2} + \frac{13x+87}{9} = \frac{3x+71}{4}$	

https://www.desmos.com/calculator/8w11q1vzrt

curves made with variable 'b'

$b = 6$

−10 10



G9 Core U4 Numeracy Bedmas #5 QUIZ

B – Brackets $(\square)$

E – Exponents $\square^2, \square^3$

D – Division $\div$

M – Multiplication $\times$

A – Addition $+$

S – Subtraction $-$

Question 1: Calculate

		Working	Answer
(a)	$4 + 2 \times 13$		
(b)	$48 \div 12 \div 2$		
(c)	$40 - 5 \times 3$		
(d)	$15 - 10 - 7$		
(e)	$10 + 4 \times 7$		
(f)	$3 \times 12 - 12$		

Question 2: Calculate

		Working	Answer
(a)	$9^2 - 1^2$		
(b)	$(3 + 4)^2$		
(c)	$\sqrt{16} + \sqrt{36}$		

Question 3: Calculate

	Working	Answer
(a)	$5(3+4)+2(1+4)$	
(b)	$5(10^2)-(5\times 2)^2$	

Question 4: Put brackets around the correct calculation so that the answer is correct.

(a)	$5\times 3+2\times 4=100$
(b)	$200\div 10\div 5=100$

Question 5: Polynomial – substitute $x=5$ and $y=4$ into this expression:

Working	Answer
$(x+y)^2+(x-y)^2$	

Question 6: Validate an answer: Substitute $x=3$ into both sides of this equation

left hand side		right hand side
	$10\,x-23=\frac{5\,x+27}{6}$	

https://www.desmos.com/calculator/8w11q1vzrt

curves made with variable 'b'

$b=8$

−10 10

