1. Evaluate.

a) 52 + 3 b) 52 – 3

c) 5 + 32 d) 5 – 32

e) (5 + 3)2 f) (5 – 3)2

g) 52 + 32 h) 52 – 32

2. Evaluate.

a) 43 × 2 b) 43 ÷ 2

c) 4 × 23 d) 4 ÷ 23

e) (4 × 2)3 f) (4 ÷ 2)3

g) 43 × 23 h) 43 ÷ 23

3. Evaluate.

a) (18 ÷ 32 + 1)4 – 42

b) 33 ÷ 9(30 – 22)

c) (122 + 53)0 – 2[(–3)3]

d) (7 – 5)3 × (8 + 2)4

e) (42 × 15)2

f) [(–3)4 – (–2)3]0 ÷ [(–4)3 – (–3)2]0

4. Insert brackets to make each statement true.

a) 15 ÷ 3 + 2 × 42 – 5 = 43 b) 15 ÷ 3 + 2 × 42 – 5 = 27

c) 15 ÷ 3 + 2 × 42 – 5 = 107 d) 15 ÷ 3 + 2 × 42 – 5 = 64

5. The formula for the volume, V, of a cylinder with height, h, and radius, r, is V = πr2h. Janet made 3 L of salsa and stores it in jars with a radius of 4 cm and a height of 10 cm. She uses this expression to determine the number of jars she will need:  About how many jars will Janet need for the salsa?