Solutions

Part A – Multiple Choice

A 1. (+) x (-) is always what as a product?
(a) (-) (b) (+) (c) Depends on the numbers (d) 0

C 2. The sum of 123.45 AND 2.7
(a) 120.75 (b) 125.15 (c) 126.15 (d) 333.315

123.45
+ 2.70
126.15

B 3. 62.7 x 12.16 would have what as the solutions? (Use decimal place or estimation)
(a)7624.32 (b) 762.432 (c) 762432 (d) 76.2432

60x 10 = 600 so B

D 4. What is (-15) x (-3) equal to ?
(a) (-18) (b) (-45) (c) (-12) (d) (+45)

B 5. Find the difference of 14.001 and 5.39 using rounding to the ones place.
(a) 13.462 (b) 8.611 (c) 9.61 (d) IDK

3 9
14.001
- 5.390
8.611

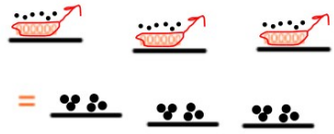
D 6. In the question, 9.32 – 6.85 ÷ 7 + 21 x 6.7, which operation would you do first?
(a) addition (b) subtraction (c) multiplication (d) division

BEDMAS

Part B – You must show work in order to obtain full value.

1. Model the following integer multiplication with tiles
(a) (+7) x (-4) (b) (-3) x (-6)





2) Find the product of the following:
a) (-8) (-7) b) (+7) (-12) c) (+4) (+11) d) (-8) (+2)

=(+56) =(-84) =(+44) =(-16)

3) Use the distributive method to evaluate the following:
a) (-24) x (+70) = (-1680) b) (-86) x (-21)= (+1806)

	70
20	20 x 70 = 1400
4	4 x 70 = 280

1400 + 280 = 1680

	20	1
80	20 x 80 = 1600	80 x 1 = 80
6	6 x 20 = 120	6 x 1 = 6

1600 + 120 + 80 + 6 = 1806

4) Add the following

a) 21.6 + 7.258

21.6
+ 7.258
28.858

b) 2.8 + 154.

2.8
+ 154.0
156.8

5) Subtract the following

a) 167.2 – 12.47

167.2
- 12.47
154.73

b) 14.7 – 0.6

14.7
- 0.6
14.1

6) Find the actual answer

(a) 3.56 x 0.3

hint 356 x 3

3.56
x 0.3
1.068

(b) 1.689 ÷ 0.3 →

16.89 ÷ 3

= 5.63

5.63
3 | 16.89
-15
18
-18
09
-9
0

7) Evaluate(no calculators).

BEDMAS

(a) 31 – (7+5) ÷ 4 + 10

31 – 12 ÷ 4 + 10

31 – 3 + 10

28 + 10

38

BEDMAS

(b) 10 + 61.2 x 0.3 + 12.96 ÷ 0.4 – 1

(Show work on side of the paper)

10 + 18.36 + 12.96 ÷ 0.4 – 1

10 + 18.36 + 32.4 – 1

28.36 + 32.4 – 1

60.76 – 1

59.76

Step 1

61.2
x 0.3
18.36

Step 2 12.96 ÷ 0.4

32.4
4 | 129.6
-12
09
-8
16
-16
0

Step 3 10 + 18.36 = 28.36

Step 4

28.36
+ 32.40
60.76

pg 121

5) Sum of 3.41

$1.21 + 2.2 = 3.41$

$$\begin{array}{r} 3.41 \\ -1.21 \\ \hline 2.20 \end{array}$$ ← many solutions

6) $$\begin{array}{r} {}^{9}\cancel{10}.49 \\ -\ 9.77 \\ \hline 0.72 \end{array}$$

Difference of 0.72 seconds

7) a) 7.65/h works 15.5 h

$$\begin{array}{r} {}^{3}\ {}^{2} \\ 7.65 \\ \times\ 15.5 \\ \hline 13825 \\ 38250 \\ +\ 76500 \\ \hline 118.575 \end{array}$$

Kiah makes $118.58 for working 15.5 hours

7b) $15.5 \div 2 \rightarrow$

$$\begin{array}{r} 7.75 \\ 2\overline{)15.50} \\ 14\downarrow \\ \hline 15 \\ 14 \\ \hline 1 \end{array}$$ ← hours in that week

$$\begin{array}{r} {}^{3}\ {}^{2} \\ 7.75 \\ \times\ 15.5 \\ \hline {}^{2}38\,{}^{1}75 \\ 38750 \\ +\ 77500 \\ \hline 120.125 \end{array}$$

for working half the time Kiah gets $120.13

pg 121

8) 7.59×1.2

15 18
7590
$9.108

6.29×1.2

1258
+6290
7.548

$9.108 - 7.548$

1.560

Saves $1.56

10) $0.6 \overline{)3.75} \Rightarrow 6 \overline{)37.500}$

6.25

36
15
12
30
30
0

11) a) $8.11 + 6.75 \times 5.2 - 2.12$

$8.11 + 35.1 - 2.12$

$43.21 - 2.12$

41.09

6.75×5.2

675
×52
1350
33750
35.100

$8.11 + 35.10$

43.21

$43.21 - 2.12$

41.09

b) $3.78 \times 2.25 - 4.028 \div 1.52$

$8.505 - 4.02 \div 1.52$

$8.505 - 2.65$

5.855

3.78×2.25

3.78
×2.25
1890
7560
75600
8.5050

$4.028 \div 1.52$

$152 \overline{)402.80}$

2.65
−304
988
912
760
760
0

$8.505 - 2.650$

5.855