Multiple choice section

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answer | D | C | B | A | C | B | D | C | D | B |

Question 1 [7.1]

D

12 × 4 = 50 – \_\_\_\_

48 = 50 – \_\_\_\_

48 = 50 – 2

Question 2 [7.3]

C

x ÷ 3 is the same as: 

Question 3 [7.4]

B



Question 4 [7.2]

A

Let n represent the number.

2 × n + 7 = 21

2n + 7 = 21

Question 5 [7.1]

C

3 + 7 = 10

Question 6 [7.4]

B





Question 7 [7.3]

D

Subtract 11 from both sides of the equation.

Question 8 [7.4]

C

7x – 3 = 18

7x – 3 + 3 = 18 + 3

7x = 21

7x ÷ 7 = 21 ÷ 7

x =3

Question 9 [7.2]

D



Question 10 [7.5]

B



Multiple-choice total marks: 10

Short answer section

Question 11 3 marks [7.1, 7.2, 7.3]

(a) The inverse operation of addition is subtraction.

(b) 9 + 2 = 11 is an equation.

(c) Unknown values such as are called variables.

Question 12 3 marks [7.1]

|  |  |  |
| --- | --- | --- |
| (a) 2 + 8 × 4 = 40 8 × 4 = 32, 32 + 2 = 34 Order of operations have not been followed. False | (b) 28 – 6 = 4 + 18 28 – 6 = 22 4 + 18 = 22 LHS = RHS True | (c) 5 × 3 =  5 × 3 = 15 45 ÷ 3 = 15 LHS = RHS True |

Question 13 2 marks [7.1]

(a) 14 + 22 = 36

(b) 

Question 14 1 mark [7.1]

119 + 23 = 142 cm

Question 15 3 marks [7.2]

(a) y plus two is equal to eight

(b) a divided by five is equal to two

(c) six multiplied by x is equal to thirty-six

Question 16 2 marks [7.2]

|  |  |
| --- | --- |
| (a) Substitute b = 3 into b + 7: 3 + 7 = 10 Yes | (b) Substitute x = 12 into :  No |

Question 17 4 marks [7.2]

|  |  |
| --- | --- |
| (a) | (b) |

Question 18 3 marks [7.3]

Let n represent the number.

2n + 8 = 26

2n = 18

n = 9

Question 19 2 marks [7.3]

(a) ×, + (b) ÷, –

Question 20 2 marks [7.3]

(a) 3x + 4 = 22 (b) x = 6

Question 21 4 marks [7.3]

|  |  |
| --- | --- |
| (a) x = 11  Macintosh HD:Users:lizwaud:Desktop:PM7_eBook:Batch 1 commenced:Artwork_CORRECTED_041016_Use this:Ch7:PM2e_07_EB_07_FATS_01.jpg | (b) x = 16  Macintosh HD:Users:lizwaud:Desktop:PM7_eBook:Batch 1 commenced:Artwork_CORRECTED_041016_Use this:Ch7:PM2e_07_EB_07_FATS_02.jpg |

Question 22 2 marks [7.4]

(a) The right-hand side is heavier.

(b) Take out three apples from the right-hand side.

Question 23 4 marks [7.4]

(a) 4x + 8 = 40  
4x + 8 – 8 = 40 – 8  
4x = 32  
4x ÷ 4 = 32 ÷ 4  
x = 8

(b)   
× 4 = 10 × 4  
  
+ 4 = 40 + 4  


Short answer total:\_\_\_\_\_\_\_\_/35

Extended answer section

Question 24 4 marks [7.5]

(a) 410 – 3s = 56  
410 – 56 = 3s

(b) 410 – 56 = 3s  
354 = 3s  
s = 118  
Each shirt cost $118.

Question 25 4 marks [7.5]

(a) 4x + x = 85

(b) 5x = 85  
5x ÷ 5 = 85 ÷ 5  
x = 17

(c) Michael has $17.  
Benny has 17 × 4 = $68.

Question 26 3 marks [7.5]

c + 2.70 = 9

c = 6.30

The sandwich cost $6.30.

Extended answer total: 11

TOTAL test marks: 56