Multiple choice section

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

Question 1 [7.1]

A

8 × 5 = 36 + \_\_\_\_

40 = 36 + \_\_\_\_

40 = 36 + 4

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 + 6 = 24

2n + 6 = 24

Question 5 [7.1]

A

5 + 3 = 8

The correct number is 3.

Question 6 [7.4]

B

4x + 2 – 2 = 10 – 2



Question 7 [7.3]

D

Subtract 7 from both sides of the equation.

Question 8 [7.4]

C



Question 9 [7.2]

B



Question 10 [7.5]

C

****

Multiple-choice total marks: 10

Short answer section

Question 11 3 marks [7.1, 7.2, 7.3]

(a) The inverse operation of subtraction is addition.

(b) 10 + 3 = 13 is an equation.

(c) A variable describes an unknown value (i.e. x, n, p...).

Question 12 3 marks [7.1]

|  |  |  |
| --- | --- | --- |
| (a) 4 + 3 × 8 = 56  4 + 24 = 56 28 56 LHS RHS False | (b) 30 – 7 = 4 + 19  23 = 23 LHS = RHS True | (c) 5 × 5 =  25 = 25 LHS = RHS True |

Question 13 2 marks [7.1]

(a) 20 + 15 = 35

(b) 

Question 14 1 mark [7.1]

120 + 17 = 137 cm

Question 15 3 marks [7.2]

(a) nine plus y is equal to thirteen

(b) a divided by four is equal to eight

(c) seven multiplied by x is equal to forty-two

Question 16 2 marks [7.2]

|  |  |
| --- | --- |
| (a) Substitute b = 4 into b + 8: 4 + 8 = 12 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 + 6 = 28

2n = 22

n = 11

Question 19 2 marks [7.3]

(a) ×, - (b) ÷, +

Question 20 2 marks [7.3]

(a)  (b) x = 4

Question 21 4 marks [7.3]

|  |  |
| --- | --- |
| (a) x = 10  Macintosh HD:Users:lizwaud:Desktop:PM7_eBook:Batch 1 commenced:Artwork_CORRECTED_041016_Use this:Ch7:PM2e_07_EB_07_FBTS_01.jpg | (b) x = 18  Macintosh HD:Users:lizwaud:Desktop:PM7_eBook:Batch 1 commenced:Artwork_CORRECTED_041016_Use this:Ch7:PM2e_07_EB_07_FBTS_02.jpg |

Question 22 2 marks [7.4]

(a) The left-hand side is heavier.

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

Question 23 4 marks [7.4]

(a) – 6 = 21 – 6  


(b)   
 × 2 = 7 × 2  
   


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

Extended answer section

Question 24 4 marks [7.5]

(a) 385 – 25 = 6s  
358 – 6s=25

(b) 358 - 6n=25  
385 – 25 = 6s  
360 = 6s  
s = 60  
Each shirt cost $60.

Question 25 4 marks [7.5]

(a) 4x + x = 115

(b) 5x = 115  
5x ÷ 5 = 115 ÷ 5  
x = 23

(c) Michael has $23.  
Benny has 23 × 4 = $92.

Question 26 3 marks [7.5]

c + 11 = 3.70

c = 7.30

The sandwich cost $7.30.

Extended answer total: 11

TOTAL test marks: 56