|  |
| --- |
|   ANSWERS  Mark /50  |

 Percentages %

|  |
| --- |
| My comments: |

|  |
| --- |
| My teacher’s comments: |

Created by Mrs Shanks

A.![C:\Users\Todsparkk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\TH8H4ZJF\MC900140803[1].wmf]() Adam is struggling with his work. He understands his fractions and decimals but needs help with his percentages. Using your knowledge of decimals and fractions can you find the missing percentages?

|  |  |  |
| --- | --- | --- |
| Fraction | Decimal | Percentage % |
|  1 100 | 0.01 | 1 % |
|  1  20 | 0.05 | 5% |
|  1  10 | 0.1 | 10 % |
|  1  5 | 0.2 | 20 % |
|  1  4 | 0.25 | 25 % |
|  1  2 | 0.5 | 50 % |
|  3  4 | 0.75 | 75 % |

 / 7 B. Now work out the following:

**10% of :**

50 = 5 80 = 8 100 = 10 130 = 13

**25% of:**

60 = 15 80 = 20 100 = 25 140 = 35

**50% of:**

60 = 30 12 = 6 100 = 50 140 = 70

/12

**C. TRUE or FALSE**

Read the following statements and decide if they are **true** or **false**. The first one has been done for you.

To work out 50% of a number you can divide it by 2. *True*

To work out 50% of a number you half it. TRUE

75% is smaller than ½. FALSE

75% is larger than ½. TRUE

To work out 25% of a number you can divide it by 4 TRUE

75% of 200 = 160 FALSE

75% of 200 = 150 TRUE

25% is equivalent to ¼. TRUE

To work out 20% of a number you can divide it by 5. TRUE

20% of 250 = 45 FALSE

20% of 250 = 50 TRUE /10

D. Percentage Problems

 A shop is having a 25% discount sale. Work out the new prices for the following items.

![C:\Users\Todsparkk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\TH8H4ZJF\MC900412462[1].wmf]() ![C:\Users\Todsparkk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\TH8H4ZJF\MC900083083[1].wmf]() ![C:\Users\Todsparkk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\5FJ8763K\MP900305766[1].jpg]()

Necklace Watch Clock

£ 12.00 £8.80 £10.00

![C:\Users\Todsparkk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\TH8H4ZJF\MC900435237[1].png]() Pen £2.40 ![C:\Users\Todsparkk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\SJMPLQAH\MC900151081[1].wmf]() £456.00

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Original Price | 25% off  | New Price |
| Necklace | *£12.00* | *£3.00* | *£9.00* |
| Watch | £8.80 | £2.20 | £6.60 |
| Clock | £10.00 | £2.50 | £7.50 |
| Pen | £2.40 | 60p | £1.80 |
| Ring | £456.00 | £114.00 | £342.00 |

 /4

E.

Good news! These children have a 25% pocket money increase ![C:\Users\Todsparkk\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\TH8H4ZJF\MC900389728[1].wmf]() What will they now have to spend?

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Pocket Money | 25%  | New amount |
| Adam | *£8.00* | *£2.00* | £10.00 |
| Ben | £ 12.00 | £3.00 | £15.00 |
| Jill | £5.40 | £1.35 | £6.75 |
| Shabana | £5.00 | £1.25 | £6.25 |
| Zain | £9.20 | £2.30 | £11.50 |

 /4

F. If Carl has a 50% increase on £4.50 how much will he receive? Will it be more than Shabana?

Carl will receive £6.75.

Yes he will have more pocket money than Shabana. /2

G. If Donna has a 75% increase in her allowance. How much will she receive if she currently has £4.40?

Donna will receive £7.70

/1

H. Below is the list of scores on a numeracy test. Fill in the missing information.

|  |  |  |
| --- | --- | --- |
| Name | Numeracy score  /20  | Percentage %  |
| Adam |  16 | 80%  |
| Ben |  19 |  95 % |
| Jill |  14 |  70%  |
| Shabana |  18 |  90% |
| Zain |  10 |  50% |

 /5

I Now rearrange the list from 1st place to 5th.

|  |  |
| --- | --- |
| Name | Position |
| Ben | *1st* |
| Shabana | 2nd |
| Adam | 3rd |
| Jill | 4th |
| Zain | 5th |

 /5