|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ½ of 28 = |  | 50% of 30 = |  | 0.2 of 25 = |  |
| ¼ of 48 = |  | 12.5% of 56 = |  | 0.1 of 12 = |  |
| 2/3 of 18 = |  | 75% of 28 = |  | 0.75 of 400 = |  |
| 3/5 of 45 = |  | 33.3% of 33 = |  | 0.6 of 60 = |  |
| 2/8 of 48 = |  | 80% of 120 = |  | 0.25 of 36 = |  |
| 1/10 of 12 = |  | 20% of 55 = |  | 1.1 of 120 = |  |
| 3/10 of 60 = |  | 37.5% of 56 = |  | 0.66 of 66 = |  |
| ¾ of 36 = |  | 150% of 26 = |  | 1.5 of 58 |  |

You have vanquished Batman, Hawk-girl, Thor, Black widow, Superman, Catwoman and Ironman to get here; this is the final confrontation before you can be called a maths superhero! Nothing remains but to say… Good luck, maths warrior!

For the next round of problems you need to work out the whole number when given a fraction, decimal or percentage. i.e.

¾ = 12

16

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ½= 14 |  | 50% = 27 |  | 0.2 = 0.2 |  |
| ¼ = 13 |  | 33.3% = 40 |  | 0.1 = 13.2 |  |
| 4/10 = 12 |  | 75% = 27 |  | 0.75 = 30 |  |
| 3/5 = 36 |  | 40% = 1.2 |  | 0.7 = 560 |  |
| 7/8 = 56 |  | 80% = 48 |  | 0.25 = 12.5 |  |
| 9/10 = 81 |  | 20% = 1.8 |  | 0.375 = 12 |  |

Wonder Woman is stunned; only these last few word problems lay between you and maths immortality!

1. There are 24 hours in a day and scientists tell us that we should sleep for ⅜ of the day. How much time should we spend sleeping?

2. **Shuttlecocks cost 36RM each in my local store. The shopkeeper says if I buy one I can buy another for only 7/9 of the normal price.**

**How much would the second pack cost?**

3. Last year, Mr. Worthington weighed 60 kg. This year he weighs 40% more. How much does Mr. Worthington weigh this year?

4. **Mrs. Ainsworth has £2000, which is 25% of the money she needs to buy a car. How much more does she need?**

5. Thomas gets 5% interest on his savings. If he has £60 in the bank, how much interest will he receive?

|  |  |
| --- | --- |
| Your time |  |
| Time needed to beat Wonder Woman | 5 minutes |
| Answers correct |  |
| Amount needed to beat Wonder Woman | 40 |