DarTutors · HCF from Prime Factorisation

Name: Date:

1. 296 = 2 x 2 x 2 x 37 88 = 2 x 2 x 2 x 11 Use these prime factorisations to find the HCF of 296 and 88.

2. 70 = 2 x 5 x 7 232 = 2 x 2 x 2 x 29 Use these prime factorisations to find the HCF of 70 and 232.

3. 291 = 3 x 97 143 = 11 x 13 Use these prime factorisations to find the HCF of 291 and 143.

4. 135 = 3 x 3 x 3 x 5 279 = 3 x 3 x 31 Use these prime factorisations to find the HCF of 135 and 279.

5. 66 = 2 x 3 x 11 299 = 13 x 23 Use these prime factorisations to find the HCF of 66 and 299.

6. 217 = 7 x 31 205 = 5 x 41 Use these prime factorisations to find the HCF of 217 and 205.

7. 65 = 5 x 13 48 = 2 x 2 x 2 x 2 x 3 Use these prime factorisations to find the HCF of 65 and 48.

8. 287 = 7 x 41 85 = 5 x 17 Use these prime factorisations to find the HCF of 287 and 85.

9. 182 = 2 x 7 x 13 280 = 2 x 2 x 2 x 5 x 7 Use these prime factorisations to find the HCF of 182 and 280.

10. 172 = 2 x 2 x 43 183 = 3 x 61 Use these prime factorisations to find the HCF of 172 and 183.

11. 272 = 2 x 2 x 2 x 2 x 17 161 = 7 x 23 Use these prime factorisations to find the HCF of 272 and 161.

12. 298 = 2 x 149 123 = 3 x 41 Use these prime factorisations to find the HCF of 298 and 123.

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ANSWER KEY

1. 8

2. 2

3. 1

4. 9

5. 1

6. 1

7. 1

8. 1

9. 14

10. 1

11. 1

12. 1

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