Name _____

Date _____

# Multiply & Divide

*Relating*

**Main Idea**: Multiplying and dividing are often related. Sometimes in math we can solve a problem by trying an opposite approach.

**Example A**

2 x d = 16 *Think: what's the opposite?*

d = 16 ÷ 2

d = 8

**Example B**

p ÷ 8 = 5 *Think: what's the opposite?*

p = 5 x 8

p = 40

**Where are we going?**

*Using the opposite approach is useful in pre-algebra. Today, these problems are basic and suitable for mental math. In the future, they require more thinking and showing work.*

**Directions**: Use mental math and show work as needed. Remember: you guarantee the correct answer if no work is shown… and no calculators! Shade the box if the answer is odd.

**Sometimes building owners will skip numbering this floor: _____**

| | | | |
|---|---|---|---|
| **1)** 5 = 35 ÷ *k* | **2)** *h* ÷ 3 = 24 | **3)** 5 x *b* = 25 | **4)** 9 = *m* x 3 |
| **5)** 27 = *d* x 3 | **6)** 10 = 60 ÷ *h* | **7)** *g* ÷ 4 = 8 | **8)** 5 x *b* = 75 |
| **9)** 7 x *r* = 63 | **10)** *y* ÷ 8 = 20 | **11)** 5 = 60 ÷ *k* | **12)** 12 = *m* x 4 |
| **13)** 45 = *w* x 3 | **14)** 11 = 88 ÷ *r* | **15)** *h* ÷ 2 = 48 | **16)** 8 x *b* = 56 |
| **17)** 9 x *b* = 81 | **18)** *a* ÷ 6 = 12 | **19)** 200 = 800 ÷ *k* | **20)** 39 = *m* x 3 |
| **21)** 12 x *d* = 36 | **22)** *h* ÷ 4 = 200 | **23)** 100 = *g* x 4 | **24)** 7 x *b* = 217 |
| **25)** 30 = *m* x 6 | **26)** 7 = 84 ÷ *k* | **27)** *v* ÷ 8 = 12 | **28)** 3 x *b* = 99 |
| **29)** 9 x *b* = 99 | **30)** *y* ÷ 12 = 12 | **31)** 6 = 120 ÷ *k* | **32)** 48 = *m* x 16 |
| **33)** 3 x *k* = 75 | **34)** *h* ÷ 3 = 30 | **35)** 7 x *b* = 567 | **36)** 63 = *d* x 3 |

*Fun Facts: You have triksideskaphobia if you fear this number. In Italy, this number is considered very lucky.*

**ANSWER KEY**

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**Sometimes building owners will skip numbering this floor: ___13_____**

| | | | |
|---|---|---|---|
| **1)** 5 = 35 ÷ *k* **7** | **2)** *h* ÷ 3 = 24 **72** | **3)** 5 x *b* = 25 **5** | **4)** 9 = *m* x 3 **3** |
| **5)** 27 = *d* x 3 **9** | **6)** 10 = 60 ÷ *h* **6** | **7)** *g* ÷ 4 = 8 **32** | **8)** 5 x *b* = 75 **15** |
| **9)** 7 x *r* = 63 **9** | **10)** *y* ÷ 8 = 20 **160** | **11)** 5 = 60 ÷ *k* **12** | **12)** 12 = *m* x 4 **3** |
| **13)** 45 = *w* x 3 **15** | **14)** 11 = 88 ÷ *r* **8** | **15)** *h* ÷ 2 = 48 **96** | **16)** 8 x *b* = 56 **7** |
| **17)** 9 x *b* = 81 **9** | **18)** *a* ÷ 6 = 12 **72** | **19)** 200 = 800 ÷ *k* **4** | **20)** 39 = *m* x 3 **13** |
| **21)** 12 x *d* = 36 **3** | **22)** *h* ÷ 4 = 200 **800** | **23)** 100 = *g* x 4 **25** | **24)** 7 x *b* = 217 **31** |
| **25)** 30 = *m* x 6 **5** | **26)** 7 = 84 ÷ *k* **12** | **27)** *v* ÷ 8 = 12 **96** | **28)** 3 x *b* = 99 **33** |
| **29)** 9 x *b* = 99 **11** | **30)** *y* ÷ 12 = 12 **144** | **31)** 6 = 120 ÷ *k* **20** | **32)** 48 = *m* x 16 **3** |
| **33)** 3 x *k* = 75 **25** | **34)** *h* ÷ 3 = 30 **90** | **35)** 7 x *b* = 567 **81** | **36)** 63 = *d* x 3 **21** |

*Fun Facts: You have triksideskaphobia if you fear this number. In Italy, this number is considered very lucky.*