# Destination Unknown

**Activity Sheet**

Name: _____ Class: _____

*Select all the different combinations of variables, which make the equation true.*

**1** **4A + 3B = 36**

| |
|---|
| If A = 6 then B = 4 |
| If A = 3 then B = 7 |
| If A = 5 then B = 4 |
| If A = 0 then B = 12 |

**2** **4A + 6B = 56**

| |
|---|
| If A = 7 then B = 3 |
| If A = 5 then B = 6 |
| If A = 8 then B = 4 |
| If A = 2 then B = 9 |

**3** **2A – 4B = 10**

| |
|---|
| If A = 9 then B = 2 |
| If A = 15 then B = 5 |
| If A = 12 then B = 8 |
| If A = 8 then B = 2 |

**4** **7A – 4B = 44**

| |
|---|
| If A = 11 then B = 9 |
| If A = 10 then B = 7 |
| If A = 8 then B = 3 |
| If A = 12 then B = 10 |

**5** **2A x 4B = 48**

| |
|---|
| If A = 3 then B = 2 |
| If A = 5 then B = 7 |
| If A = 4 then B = 4 |
| If A = 1 then B = 6 |

**6** **3A x 3B = 108**

| |
|---|
| If A = 5 then B = 2 |
| If A = 2 then B = 6 |
| If A = 7 then B = 4 |
| If A = 4 then B = 3 |

**7** **5A ÷ 2B = 20**

| |
|---|
| If A = 10 then B = 4 |
| If A = 3 then B = 2 |
| If A = 8 then B = 10 |
| If A = 12 then B = 15 |

**8** **7A ÷ 2B = 7**

| |
|---|
| If A = 6 then B = 3 |
| If A = 10 then B = 5 |
| If A = 8 then B = 2 |
| If A = 9 then B = 3 |

# Destination Unknown

**Activity Sheet**

Name: _____ Class: _____

Complete the combinations of variables that make these equations true.

**9**

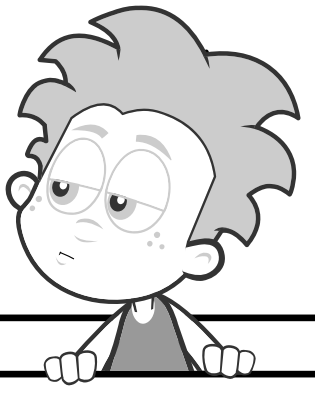
| 4A + 2B = 40 | |
|---|---|
| A = | B = 8 |
| A = 5 | B = |

**10**

| 6A – 3B = 30 | |
|---|---|
| A = 6 | B = |
| A = 10 | B = |

**11**

| 4A x 2B = 160 | |
|---|---|
| A = 10 | B = |
| A = 4 | B = |



What are the possible combination of values?

**12** Sten has some 10p and 50p coins.
If Sten has 200p altogether, which combination of coins could Sten have?

10 p x _____ 50 p x _____

**13** Sten has some 2p and 5p coins.
If Sten had 35p altogether, which combination of coins could Sten have?

2 p x _____ 5 p x _____

**14** The sailor has some 6m and 12m lengths of rope. If the length of all the rope joined together is 84m, which combination of rope could the sailor have?

6 m x _____ 12 m x _____

**15** The farmer has some buckets that hold 6l of water, and some buckets that hold 2l of water. If the farmer has 30l of water altogether, which combination of buckets could the farmer have?

6 l x _____ 2 l x _____

**16** The greengrocer has some bags of oranges. Some weigh 8kg, and some weigh 4kg. If the greengrocer has 64kg of oranges altogether, which combination of bags could he have?

8 kg x _____ 4 kg x _____