Name _____     Date _____

## Recognizing Proportional Relationships - Independent Practice Worksheet

Solve all the problems.

1) Drew is an artist. He paints portraits. The table below shows the number of portraits painted in hours. Do the numbers in the table represent a proportional relationship?

| Number of portraits | Time (In Hours) |
|---|---|
| 1 | 5 |
| 2 | 10 |
| 3 | 15 |
| 4 | 20 |

2) This table shows the amount earned by Harry for selling cups of ice cream. Do the numbers in the table represent a proportional relationship?

| Cups sold (km) | Earnings ($) |
|---|---|
| 3 | 12 |
| 5 | 20 |
| 7 | 28 |
| 9 | 36 |

3) Fred wrote notes during an examination. The table below shows number of pages written in relation to the time it took to make the notes (in hours). Does the table represent a proportional relationship?

| Notes (pages) | Time (In Hours) |
|---|---|
| 8 | 16 |
| 9 | 18 |
| 10 | 20 |
| 11 | 23 |

4) Alice went to market and bought comics. The table below shows the price for different numbers of comics. Do the numbers in the table represent a proportional relationship?

| Number of Comics | Price (Dollars) |
|---|---|
| 2 | 6 |
| 4 | 12 |
| 6 | 16 |
| 8 | 24 |

5) A ferry has to transport bikes on an island. The table below shows the number of bikes transported and the number of trips made by ferry. Do the numbers in the table represent a proportional relationship?

| Number of bikes | Number of trips |
|---|---|
| 10 | 5 |
| 12 | 6 |
| 14 | 7 |
| 16 | 8 |

6) The table below gives the distance covered by a train over time. Do the numbers in the table represent a proportional relationship?

| Distance (km) | Time (In Hours) |
|---|---|
| 50 | 10 |
| 60 | 12 |
| 70 | 14 |
| 80 | 16 |

7) Daisy made an envelope from sheets of paper. The table below shows the number of envelopes made by the number of sheets. Do the numbers in the table represent a proportional relationship?

| Number of envelopes | Number of sheets |
|---|---|
| 1 | 2 |
| 2 | 4 |
| 3 | 6 |
| 4 | 12 |

8) Joe made a fruit pie. The table below displays the number of fruits he used to make the pies. State "Yes", if the table represents a proportional relationship?

| Number of pie | Number of  fruit |
| --- | --- |
| 2 | 10 |
| 3 | 15 |
| 4 | 24 |
| 5 | 25 |

9) Betty makes omelettes. The table below shows number of omelettes made and the number of eggs used. Does table represent a proportional relationship?

| Number omelette | Number of eggs |
| --- | --- |
| 5 | 10 |
| 6 | 12 |
| 7 | 14 |
| 8 | 24 |

10) Kelly goes on a morning walk. The table below shows the number of meters ran by Kelly over time. Do the numbers in the table represent a proportional relationship?

| Distance (m) | Time (In minutes) |
| --- | --- |
| 3 | 12 |
| 4 | 16 |
| 5 | 20 |
| 6 | 24 |