Answers

**Number**

**Unit 2 Line Master 7e**

Strategies will vary; sample answers and observations are provided.

**Part A: Dividing by a Fraction with the Same Denominator**

|  |  |
| --- | --- |
| **Set 1** | **Set 2** |
| 1. ÷ = 7
2. ÷ = 4
3. ÷ = 5
 | a) ÷ = 5 b) ÷ = 2 c) ÷ = 7 |
| The pattern that I notice is The answer is the first numerator divided by the second numerator. |
| I can remember, when dividing fractions with the same denominators, thatI can just divide the numerators. |

 Answers (cont’d)

**Number**

**Unit 2 Line Master 7f**

**Part B: Dividing a Whole Number by a Unit Fraction**

|  |  |
| --- | --- |
| **Set 1** | **Set 2** |
|  a) 7 ÷ = 14 b) 3 ÷ = 15 c) 4 ÷ = 12 |  a) 6 ÷ = 30 b) 5 ÷ = 20 c) 2 ÷ = 20 |
| The pattern that I notice is The answer is the product of the whole number and the denominator of the divisor. |
| I can remember, when dividing a whole number by a unit fraction, thatI can just multiply the whole number and the denominator of the divisor (or the reciprocal of the divisor). |

 Answers (cont’d)

**Number**

**Unit 2 Line Master 7g**

**Part C: Dividing Fractions with Different Denominators**

|  |  |
| --- | --- |
| **Set 1** | **Set 2** |
| 1. ÷ = × 5 ÷ 3  = ÷ 3 = ×  = (or 2)
2. ÷ = × 3 ÷ 1 =

 c) 1÷ = 1× 4 ÷ 3 = × 4 ÷ 3 = ×  = (or 1) | 1. ÷ = × 5 ÷ 3  = ÷ 3 = ×  = (or 2)
2. 1÷ = × 4 ÷ 3  = ÷ 3 = ×  = (or 1)

 c) 1÷ = × 7 ÷ 5  = ×  = (or 2) |
| The pattern that I notice is Before I simplify my answer, the numerator is equal to the product of the numerator of the dividend and the denominator of the divisor. The denominator is equal to the product of the denominator of the dividend and the numerator of the divisor. |
| I can remember, when dividing a whole number by a unit fraction, that I multiply by the reciprocal of the divisor. |

 Answers (cont’d)

**Number**

**Unit 2 Line Master 7h**

**Part D: Choosing a Division Strategy**

You have identified different ways to divide fractions.
Think about which method you would like to use for each
of the following questions and then determine the quotient.

Strategies will vary.

|  |  |
| --- | --- |
| **Set 1** | **Set 2** |
| 1. ÷ = (or 3) I remembered that dividing by is the same as multiplying by 2.
2. ÷ = × 4 ÷ 3  = ÷ 3 = (or )I multiplied by the reciprocal of the divisor.

 c) 1÷ = ÷  = (or 6) I wrote the mixed number  as an improper fraction,  then expressed both  fractions with the same  denominator. | 1. ÷ = ÷  = , or I expressed both fractions with the same denominator.
2. 2÷ = ÷  = ÷  = 6I wrote the mixed number as an improper fraction, then expressed both fractions with the same denominator.

 c) 1÷ = ÷  = ×  = (or 3)  I multiplied by the reciprocal  of the divisor. |