|  |
| --- |
| **Lesson Title:** Converting Between Mixed and Improper Fractions |
| **Practice Activity:** PHM-08-001 |

1. a. ; b. ; c. ; d.
2. a. ; b. ; c. ; d.

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| **Lesson Title:** ConvertingDecimals to Fractions |
| **Practice Activity:** PHM-08-002 |

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| **Lesson Title:** ConvertingFractions toDecimals |
| **Practice Activity:** PHM-08-003 |

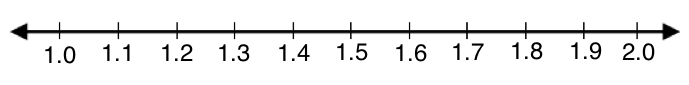
1. 0.7
2. 0.031
3. 1.99
4. 0.6
5. 0.375
6. 0.45
7. 4.5
8. 0.0625

|  |
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| **Lesson Title:** Comparing and Ordering a Mixture of Numbers |
| **Practice Activity:** PHM-08-004 |

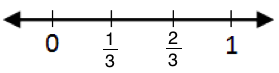
1. Number line:

/Users/brittany/Desktop/-12 to 2.png

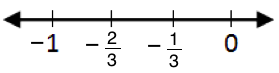
1. Number line:



1. Number line:



1. Number line:



|  |
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| **Lesson Title:** Locating a Mixture of Numbers on the Number Line |
| **Practice Activity:** PHM-08-005 |

1. a. ; b. 1.4 or ; c. 1.32; d. ; e. 0.11
2. Number lines with arrows:

|  |  |  |
| --- | --- | --- |
|  | 1.2 |  |
|  |  |  |
|  |  |  |
|  | 1.23 |  |
|  | 0.27 |  |

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| **Lesson Title:** Classification of Decimal Numbers |
| **Practice Activity:** PHM-08-006 |

1. a. ; b. ; c. ; d.
2. a. recurring; b. terminating; c. recurring; d. recurring
3. a. terminating; b. recurring; c. recurring; d. terminating

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| **Lesson Title:** Rounding off Decimal Numbers to the Nearest Whole |
| **Practice Activity:** PHM-08-007 |

1. a. 318; b. 0; c. 2; d. 71; e. 201
2. Completed table:

|  |  |  |
| --- | --- | --- |
| **PUPIL** | **DISTANCE (KM)** | **DISTANCE TO THE NEAREST KM** |
| **Sia** | 3.8 | 4 |
| **David** | 1.75 | 2 |
| **Annette** | 0.3 | 0 |
| **Yusuf** | 2.5 | 3 |
| **Mary** | 2.189 | 2 |
| **Foday** | 1.09 | 1 |

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| **Lesson Title:**  Rounding off Decimal Numbers to Stated Decimal Places |
| **Practice Activity:** PHM-08-008 |

1. 2.2
2. 1787.4
3. 1.0
4. a. 2.105; b. 0.592; c. 21.021; d. 9.091; e. 310.358
5. Completed table:

|  |  |  |
| --- | --- | --- |
| **DAY** | **FUEL USED (L.)** | **FUEL (L) TO 1 DECIMAL PLACE** |
| **Monday** | 4.578 | 4.6 |
| **Tuesday** | 3.45 | 3.5 |
| **Wednesday** | 5.093 | 5.1 |
| **Thursday** | 0.995 | 1.0 |
| **Friday** | 3.72 | 3.7 |

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| **Lesson Title:**  Introduction to Significant Figures |
| **Practice Activity:** PHM-08-009 |

1. 5 s.f.
2. 2 s.f.
3. 4 s.f.
4. 2 s.f.
5. 4 s.f.
6. 1 s.f.
7. 5 s.f.
8. 2 s.f.
9. 1 s.f.
10. 5 s.f.

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| **Lesson Title:** Rounding off Decimal Numbers to Significant Figures |
| **Practice Activity:** PHM-08-010 |

1. a. 587,300, b. 587,000, c. 590,000
2. 0.046626
3. a. 0.033, b. 4.3, c. 31
4. a. 20,000, b. 500, c. 0.6
5. Le 320,000
6. 1,050,000
7. 0.00584

|  |
| --- |
| **Lesson Title:** Adding and Subtracting Integers and Decimals |
| **Practice Activity:** PHM-08-011 |

1. 341.18
2. 0.6
3. 0.44
4. 39.9
5. 25.145
6. 225.2
7. 272.28
8. 6.742
9. 3.75 yards
10. 9.8 litres

|  |
| --- |
| **Lesson Title:**  Adding and Subtracting Fractions with Integers and Decimals |
| **Practice Activity:** PHM-08-012 |

1. 18.9 or
2. 6.3 or
3. 2.5 or
4. 21

|  |
| --- |
| **Lesson Title:**  Multiplying and Dividing by Integers and Decimals |
| **Practice Activity:** PHM-08-013 |

1. 42
2. 3.22
3. 8.75
4. 9.1
5. 0.64

|  |
| --- |
| **Lesson Title:**  Multiplying and Dividing Fractions by Integers and Decimals |
| **Practice Activity:** PHM-08-014 |

1. 30
2. 28
3. 7

|  |
| --- |
| **Lesson Title:** Story Problems with Operations on Different Number Types |
| **Practice Activity:** PHM-08-015 |

1. 35 kg
2. 22.8 kg
3. mile
4. 7.5 cm
5. 20 cakes
6. mile
7. 61.4 kg
8. 82.9 kg

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| **Lesson Title:** Review the Concept and Vocabulary of Factors and Multiples |
| **Practice Activity:** PHM-08-016 |

1. 3, 6, 9, 12, 15, 18, 21, 24, 27, 30
2. a. 1, 2, 4, 5, 10, 20; b. 1, 2, 3, 4, 6, 9, 12, 18, 36; c. 1, 2, 4, 5, 8, 10, 16, 20, 40, 80
3. 42, 45, 48, 51, 54, 57
4. 27, 36, 45, 54, 63, 72
5. 6, 12, 18, 24, 30, 36, 42, 48, 54, 60; a. Yes; 12, 24, 36, 48, 60; b. No

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| **Lesson Title:**  Review Prime and Composite Numbers |
| **Practice Activity:** PHM-08-017 |

1. Completed table:

|  |  |  |
| --- | --- | --- |
| **Numbers** | **Factors** | **Prime or Composite** |
| **16** | 1, 2, 4, 8, 16 | Composite |
| **24** | 1, 2, 3, 4, 6, 8, 12, 24 | Composite |
| **29** | 1, 29 | Prime |
| **41** | 1, 41 | Prime |
| **49** | 1, 7, 49 | Composite |
| **54** | 1, 2, 3, 6, 9, 18, 27, 54 | Composite |
| **59** | 1, 59 | Prime |

1. 21, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34
2. 53, 57, 59, 61, 67

|  |
| --- |
| **Lesson Title:**  Prime Factors of Whole Numbers |
| **Practice Activity:** PHM-08-018 |

1. 2, 3, 5
2. 2, 11
3. Completed table:

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| --- | --- | --- |
| **Numbers** | **Factors** | **Prime factors** |
| **21** | 1, 3, 7, 21 | 3, 7 |
| **35** | 1, 5, 7, 35 | 5, 7 |
| **42** | 1, 2, 3, 6, 7, 14, 21, 42 | 2, 3, 7 |
| **56** | 1, 2, 4, 7, 8, 14, 28, 56 | 2, 7 |
| **90** | 1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, 90 | 2, 3, 5 |

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| **Lesson Title:**  Calculating the Least Common Multiple (LCM) |
| **Practice Activity:** PHM-08-019 |

1. 4
2. 6
3. 24
4. 60
5. 36
6. 360
7. 180

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| **Lesson Title:** Calculating the Highest Common Factor (HCF) |
| **Practice Activity:** PHM-08-020 |

1. 4
2. 5
3. 12
4. 28
5. 18
6. 4

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| **Lesson Title:** Index Notation |
| **Practice Activity:** PHM-08-021 |

1. a. 1; b. 16; c. 900
2. a. 1000; b. 64; c. 0
3. a. ; b. ; c.
4. a. ; b. ; c.
5. a. 625; b. 1; c. 144

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| **Lesson Title:**  Index Law 1: Multiplication of Indices |
| **Practice Activity:** PHM-08-022 |

1. ; the expression is already in its simplest form

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| **Lesson Title:**  Index Law 2: Division of Indices |
| **Practice Activity:** PHM-08-023 |

1. ; the expression is already in its simplest form

|  |
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| **Lesson Title:**  Index Law 3: Power of Zero |
| **Practice Activity:** PHM-08-024 |

1. 1
2. 1
3. 1
4. 1
5. 1

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| **Lesson Title:**  Index Law 4: Powers of Indices |
| **Practice Activity:** PHM-08-025 |

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| **Lesson Title:** Index Laws 5 and 6: Power of a Product and Quotient |
| **Practice Activity:** PHM-08-026 |

* 4. or

|  |
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| **Lesson Title:** Application of the Laws of Indices |
| **Practice Activity:** PHM-08-027 |

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| **Lesson Title:** Indices with Negative Powers |
| **Practice Activity:** PHM-08-028 |

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| **Lesson Title:** Multiplying and Dividing Indices with Negative Powers |
| **Practice Activity:** PHM-08-029 |

1. 1
2. 14

|  |
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| **Lesson Title:** Negative Powers and the Index Laws |
| **Practice Activity:** PHM-08-030 |

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| **Lesson Title:** Identifying the Percentage of a Given Quantity |
| **Practice Activity:** PHM-08-031 |

1. 480
2. 50
3. Le 960.00
4. 42 mangoes
5. 15 oranges
6. 420 children
7. 125 newspapers

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| **Lesson Title:**  Expressing One Quantity as a Percentage of Another |
| **Practice Activity:** PHM-08-032 |

1. 10%
2. 20%
3. 48%
4. 15%
5. a. 80%; b. 20%
6. a. 10%; b. 70%; 20%

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| **Lesson Title:** Percentage Increase |
| **Practice Activity:** PHM-08-033 |

1. 15%
2. 6.25%
3. 5%
4. 30%
5. 50%

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| **Lesson Title:**  Percentage Decrease |
| **Practice Activity:** PHM-08-034 |

1. 50%
2. 7.5%
3. 12.5%
4. 5%
5. 51%

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| **Lesson Title:** Applying Percentage Increase and Decrease |
| **Practice Activity:** PHM-08-035 |

1. Le 66,500.00
2. 9.2 seconds
3. 104 cm.
4. Le 78,090.00
5. 598 pupils
6. Le 43,750.00

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| **Lesson Title:** Introduction to Profit and Loss |
| **Practice Activity:** PHM-08-036 |

1. a. Total costs: Le 500,000.00; Total sales: 530,000.00; b. Profit, her sales are greater than her costs; c. Her profit is Le 30,000.00
2. a. Total costs: Le 1,600,000.00; Total sales: Le 1,400,000.00; b. Loss, his sales are less than his costs; c. His loss is Le 200,000.00

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| **Lesson Title:**  Calculating Profit |
| **Practice Activity:** PHM-08-037 |

1. 25%
2. 50%
3. 60%
4. 40%

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| **Lesson Title:** Calculating Loss |
| **Practice Activity:** PHM-08-038 |

1. 20%
2. 25%
3. 5%
4. 25%

|  |
| --- |
| **Lesson Title:**  Introduction to Percentages Greater than 100 |
| **Practice Activity:** PHM-08-039 |

1. 150%
2. 250%
3. 112.5%
4. a. ; b. ; c.
5. 125%

|  |
| --- |
| **Lesson Title:**  Calculations with Percentages Greater than 100 |
| **Practice Activity:** PHM-08-040 |

1. 96
2. 12
3. 105
4. Le 20,000.00
5. Le 14,000.00
6. 147 people
7. 115 kg of cassava

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| **Lesson Title:**  Ratio |
| **Practice Activity:** PHM-08-041 |

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| **Lesson Title:**  Rate |
| **Practice Activity:** PHM-08-042 |

1. 30 km/hr
2. 5 km/hr
3. cars/day or 2.5 cars/day
4. 2 minutes/problem
5. 3 kg/hr
6. 17 km/hr
7. 11.25 km/l

|  |
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| **Lesson Title:** Unit Rate |
| **Practice Activity:** PHM-08-043 |

1. 15 kg/bag
2. 15 players/team
3. 9 paintings/week
4. 6 teachers/car
5. 80 kph or 80 km/hr
6. 60 kph or 60 km/hr

|  |
| --- |
| **Lesson Title:**  Calculation of Unit Price |
| **Practice Activity:** PHM-08-044 |

1. Le 5,000.00/exercise book
2. Le 20,000.00/kg.
3. Le 12,000.00/fish
4. GH₵6.00/book
5. Le 4,000.00/egg

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| **Lesson Title:**  Making Comparisons with Unit Price |
| **Practice Activity:** PHM-08-045 |

1. Option 2: 5 kg of beans for Le 65,000.00
2. Bendu
3. Option 2: 3 pens for Le 12,000.00
4. Option 2: 50 kg. of rice for Le 375,000.00
5. Le 7,189.00

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| **Lesson Title:** Direct Proportion |
| **Practice Activity:** PHM-08-046 |

1. a. ; b. Extremes: 3 and 20, Means: 12 and 5; c. Yes
2. a. ; b. Extremes: 5 and 20, Means: 15 and 7; c. No
3. a. , Yes; b. , Yes; c. ; No

|  |
| --- |
| **Lesson Title:** Identifying Direct Proportions |
| **Practice Activity:** PHM-08-047 |

1. a. There are many different answers, depending on the values you choose for . Example answers: , , .

b. Write your proportions as fractions and cross multiply. If the cross products are equal, they are true proportions.

1. a. There are many different answers, depending on the values you choose for . Example answers: , , .

b. Write your proportions as fractions and cross multiply. If the cross products are equal, they are true proportions.

|  |
| --- |
| **Lesson Title:**  Solving Direct Proportions |
| **Practice Activity:** PHM-08-048 |

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| **Lesson Title:**  Applications of Direct Proportions |
| **Practice Activity:** PHM-08-049 |

1. 60 minutes, or 1 hour
2. 10 pieces of chalk
3. 14 bottles of fertilizer
4. 96 minutes, or 1 hour and 36 minutes
5. 9 cups of rice
6. 5 days

|  |
| --- |
| **Lesson Title:**  Direct Proportion Story Problems |
| **Practice Activity:** PHM-08-050 |

1. 75 oranges
2. 12 hours
3. 25 litres of fuel
4. Le 150,000.00
5. 5 days

|  |
| --- |
| **Lesson Title:**  Indirect Proportion |
| **Practice Activity:** PHM-08-051 |

1. a. and ; b. ; c. Means: 9 and 4, Extremes: 3 and 12; d.
2. a. No; b. Yes; c. Yes; d. No

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| **Lesson Title:**  SolvingIndirect Proportions |
| **Practice Activity:** PHM-08-052 |

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| --- |
| **Lesson Title:** Applications ofIndirect Proportions |
| **Practice Activity:** PHM-08-053 |

1. 120 workers
2. 3 days
3. 25 days
4. 3 plums each

|  |
| --- |
| **Lesson Title:** Indirect Proportion Story Problems |
| **Practice Activity:** PHM-08-054 |

1. hours, or 2 hours and 24 minutes
2. 2.5 days
3. They need 1 more tailor

|  |
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| **Lesson Title:** Practice with Proportion |
| **Practice Activity:** PHM-08-055 |

1. Le 9,100,000.00
2. Le 72,000.00
3. 1 more pot of rice