Written in
NZ for NZ

Help Me at HOME Series

Data Projector version of ... Book 7 (AH7a)

40x Number Knowledge Worksheets

This resource supports the

Numeracy Professional Development Project

Stages 6 to 8

AWS Publications Ltd

AWS

Number Knowledge Revision

Home Page

Information about what is covered within this resource ...

Click on the worksheet number you require ...

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

Number Knowledge Revision

The following activities are covered in worksheets 1 to 10:

- **Read** and **write** numbers while **skip counting** in **3's**, **4's**, **5's**, **6's**, **7's**, **8's** and **9's** in a **forward** or **backward** sequence.

  Example: 7, 14, 21, ___, 35, ___, 49, ____, 63, ___, 77, 84, ___, 98, ___ etc.

- **Skip counting** in **3's**, **4's**, **5's**, **6's**, **7's**, **8's** and **9's write** the number that comes **after**, **before** or **between** the given numbers.

  Example: after 18, _____, before _____, 36 between 54, _____, 66

- **THIRTY activities involving ...**

- Ordering whole numbers or decimals, adding numbers in a matrix, exploring place value in whole numbers and decimals, rounding whole numbers or decimals to the nearest 10, 100, 1000 or 10th and finding estimated answers, finding a fraction of a group of shapes and of a whole number, multiplying and dividing large numbers and decimals, converting between commonly used fractions, decimals and percentages, finding a percentage of a whole number, finding the square or square root of a number, adding and subtracting integers and simple word problems.

AWS Number Knowledge Revision

- Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.

  Example: 244 + 142 = ___ , 425 + ___ = 387, 495 - 276 = ___ , 935 - ___ = 493

- Revise the **3x**, **4x**, **5x**, **6x**, **7x**, **8x** and **9x multiplication / division facts**.

  Example: 9 x 2 = ___ , 7 x 3 = ___ , 3 x ___ = 21 and 35 ÷ 5 = ___

Number Knowledge Revision

The following activities are covered in worksheets 11 to 20:

- **SEVENTY-TWO activities involving ...**
  - skip counting in multiples, stating numbers that come before after or between given numbers;
  - ordering whole numbers or decimals;
  - writing decimals as number words;
  - adding numbers in a matrix;
  - exploring place value using money, whole numbers and decimals,
  - rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
  - finding a fraction of a group of shapes, a whole number or a decimal;
  - converting between improper fractions and mixed numbers;
  - multiplying and dividing large numbers and decimals;
  - order of operations, BEDMAS;
  - converting between commonly used fractions, decimals and percentages;
  - finding a percentage of a whole number;
  - finding the square or square root of a number;
  - adding and subtracting integers;
  - simple word problems.

AWS Number Knowledge Revision

- Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.

  Example: 562 + .86 = ___ , 389 + ___ = 723, 562 - 296 = ___ , 915 - ___ = 373

- Revise the **4x**, **6x**, **7x**, **8x** and **9x** multiplication / division facts.

  Example: *9 x 8 = ___ , 7 x 6 = ___ , 8 x ___ = 56* and 54 ÷ 9 = ___

AWS Number Knowledge Revision

The following activities are covered in worksheets 21 to 30:

- **SEVENTY-TWO activities involving ...**
  - skip counting in multiples, stating numbers that come before after or between given numbers;
  - writing decimals as number words and number words as decimals;
  - writing decimals as number words;
  - adding numbers in a matrix;
  - exploring place value using money, whole numbers and decimals,
  - rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
  - finding a fraction of a group of shapes, a whole number or a decimal;
  - creating equivalent fractions;
  - converting between improper fractions and mixed numbers;
  - multiplying large numbers or decimals and multiplying by 10, 100 or 1000;
  - dividing large numbers or decimals and dividing by 10, 100 or 1000;
  - order of operations, BEDMAS;
  - converting between commonly used fractions, decimals and percentages;
  - finding a percentage of a whole number or decimal;
  - finding the square or square root of a number;
  - adding and subtracting integers;
  - solving equations;
  - simple word problems.

Number Knowledge Revision

- Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.

  Example: 562 + .86 = ___ , 389 + ____ = 723, 562 - 296 = ___ , 915 - ___ = 373

- Revise the **4x**, **6x**, **7x**, **8x** and **9x** multiplication / division facts.

  Example: 9 x 8 = ___ , 7 x 6 = ___ , 8 x ____ = 56 and 54 ÷ 9 = ___

AWS Number Knowledge Revision

The following activities are covered in worksheets 31 to 40:

- **SEVENTY-TWO activities involving ...**
  - skip counting in multiples, stating numbers that come before after or between given numbers;
  - writing decimals as number words and number words as decimals;
  - writing decimals as number words;
  - adding numbers in a matrix;
  - exploring place value using money, whole numbers and decimals,
  - rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
  - finding a fraction of a group of shapes, a whole number or a decimal;
  - creating equivalent fractions;
  - converting between improper fractions and mixed numbers;
  - multiplying large numbers or decimals and multiplying by 10, 100 or 1000;
  - dividing large numbers or decimals and dividing by 10, 100 or 1000;
  - order of operations, BEDMAS;
  - converting between commonly used fractions, decimals and percentages;
  - finding a percentage of a whole number or decimal;
  - finding the square or square root of a number;
  - adding and subtracting integers;
  - solving equations;
  - simple word problems.

AWS Number Knowledge Revision

- Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.

  Example: 574 + 142 = ___ , 355 + ___ = 890,

  968 - 531 = ___ , 974 - ___ = 695

- Revise the **4x**, **6x**, **7x**, **8x** and **9x multiplication / division facts**.

  Example: 8 x 5 = ___ , 7 x ___ = 56, ___ x 9 = 45,

  24 ÷ 4 = ___ , 48 ÷ ___ = 6, ___ ÷ 7 = 6

(1) **Write** in the missing numbers as you skip count in **3's**.

3, _____, _____, _____, _____, 18, _____, _____,

27, _____, _____, _____, 39, _____, 45, 48, 51

(2) **Skip counting** in **5's, write** the number that comes **after** ...

65, _____ 40, _____ 105, _____

(3) **Write** these numbers in order from **largest** to **smallest**.
Underline the **odd** numbers.

838
2.93
0.429
27.13
0.045

_____, _____, _____, _____, _____

(4) **Multiplying** large numbers.

589	327	450
x 5	x 8	x 9

(5) **Round** these numbers to the **nearest 10**.

728 = _____ 587 = _____

243 = _____ 675 = _____

Add and **subtract** these numbers.

(6) 463 + 115 = _____ (11) 578 – 463 = _____

(7) 479 + 209 = _____ (12) 688 – 209 = _____

(8) 175 + 392 = _____ (13) 567 – 175 = _____

(9) _____ + 464 = 713 (14) 713 – _____ = 249

(10) 358 + _____ = 777 (15) _____ – 564 = 158

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 10 = _____ (21) 21 ÷ 3 = _____

(17) 4 x 5 = _____ (22) 40 ÷ 5 = _____

(18) 9 x 6 = _____ (23) 27 ÷ 9 = _____

(19) 7 x _____ = 7 (24) 35 ÷ _____ = 7

(20) _____ x 8 = 72 (25) _____ ÷ 8 = 10

(1) **Write** in the missing numbers as you skip count in **3's**.

3, **6**, **9**, **12**, **15**, 18, **21**, **24**,

27, **30**, **33**, **36**, 39, **42**, 45, 48, 51

(2) **Skip counting** in **5's, write** the number that comes **after** ...

65, **70** 40, **45** 105, **110**

(3) **Write** these numbers in order from **largest** to **smallest**.
Underline the **odd** numbers.

838
2.93
0.429
27.13
0.045

838, **27.13**, **2.93**, **0.429**, **0.045**

(4) **Multiplying** large numbers.

589	327	450
x 5	x 8	x 9
2945	**2616**	**4050**

(5) **Round** these numbers to the **nearest 10**.

728 = **730** 587 = **590**

243 = **240** 675 = **680**

Add and **subtract** these numbers.

(6) 463 + 115 = **578** (11) 578 – 463 = **115**

(7) 479 + 209 = **688** (12) 688 – 209 = **479**

(8) 175 + 392 = **567** (13) 567 – 175 = **392**

(9) **249** + 464 = 713 (14) 713 – **464** = 249

(10) 358 + **419** = 777 (15) **722** – 564 = 158

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 10 = **30** (21) 21 ÷ 3 = **7**

(17) 4 x 5 = **20** (22) 40 ÷ 5 = **8**

(18) 9 x 6 = **54** (23) 27 ÷ 9 = **3**

(19) 7 x **1** = 7 (24) 35 ÷ **5** = 7

(20) **9** x 8 = 72 (25) **80** ÷ 8 = 10

(1) **Write** in the missing numbers as you skip count backwards in **5's**.

75, _____, _____, _____, _____, 50, _____, 40,

_____, _____, _____, _____, 15, 10, _____

(2) **Skip counting** in **7's, write** the number that comes **before** ...

_____ , 56 _____ , 35 _____ , 91

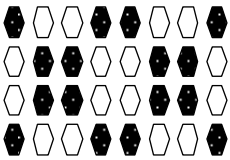
(3) What is the **place value** of the **BOLD** digit and what does it mean?

Example: In 4**5**2 the place value is **10's** and it means **50**.

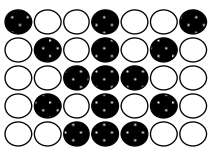
5**3**2 = _____ = _____ **7**662 = _____= _____

90**2** = _____ = _____ 1**9**20 = _____ = _____

(4) What fraction of each group of shapes is shaded?

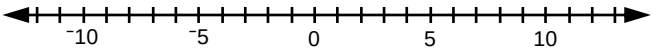


_____



_____

(5) **Add** these positive and negative numbers.



-9 + 7 = _____ -14 + 9 = _____

10 + -8 = _____ 5 + -8 = _____

Add and **subtract** these numbers.

(6) 215 + 363 = _____ (11) 478 – 136 = _____

(7) 219 + 715 = _____ (12) 845 – 527 = _____

(8) 193 + 664 = _____ (13) 725 – 270 = _____

(9) _____ + 596 = 883 (14) 931 – _____ = 468

(10) 398 + _____ = 605 (15) _____ – 596 = 287

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 5 = _____ (21) 3 ÷ 3 = _____

(17) 10 x 5 = _____ (22) 45 ÷ 5 = _____

(18) 9 x 4 = _____ (23) 18 ÷ 9 = _____

(19) 7 x _____ = 42 (24) 49 ÷ _____ = 7

(20) _____ x 8 = 8 (25) _____ ÷ 8 = 8

(1) **Write** in the missing numbers as you skip count backwards in **5's**.

75, **70**, **65**, **60**, **55**, 50, **45**, 40,
35, **30**, **25**, **20**, 15, 10, **5**

(2) **Skip counting** in **7's, write** the number that comes **before** ...

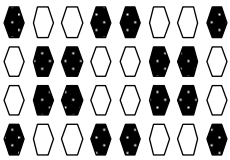
49 , 56 **28** , 35 **84** , 91

(3) What is the **place value** of the **BOLD** digit and what does it mean?
Example: In 4**5**2 the place value is **10's** and it means **50**.

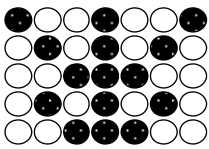
5**3**2 = **10's** = **30** **7**662 = **1000's** = **7000**

90**2** = **1's** = **2** 1**9**20 = **100's** = **900**

(4) What fraction of each group of shapes is shaded?

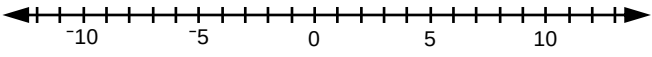


1/2



3/7

(5) **Add** these positive and negative numbers.



−9 + 7 = **-2** −14 + 9 = **-5**

10 + −8 = **2** 5 + −8 = **-3**

Add and **subtract** these numbers.

(6) 215 + 363 = **578** (11) 478 − 136 = **342**

(7) 219 + 715 = **934** (12) 845 − 527 = **318**

(8) 193 + 664 = **857** (13) 725 − 270 = **455**

(9) **287** + 596 = 883 (14) 931 − **463** = 468

(10) 398 + **207** = 605 (15) **883** − 596 = 287

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 5 = **15** (21) 3 ÷ 3 = **1**

(17) 10 x 5 = **50** (22) 45 ÷ 5 = **9**

(18) 9 x 4 = **36** (23) 18 ÷ 9 = **2**

(19) 7 x **6** = 42 (24) 49 ÷ **7** = 7

(20) **1** x 8 = 8 (25) **64** ÷ 8 = 8

(1) **Write** in the missing numbers as you skip count in **7's**.

7, _____, _____, 28, _____, _____, _____, 56,

_____, 70, _____, _____, 91, _____, _____

(2) **Skip counting** in **8's, write** the number that is **between** ...

56, _____,72 24, _____, 40 88, _____, 104

(3) **Find** each **fraction** of these whole numbers.

$^1/_6$ of 240 = _____ $^2/_3$ of 360 = _____

$^1/_7$ of 350 = _____ $^3/_5$ of 500 = _____

(4) **Add** all the numbers in this matrix.

6900	9	650	
30	250	20	
820	470	4100	
			Total

(5) **Dividing** large numbers.
Example: 95 ÷ 5 = (50 ÷ 5) + (45 ÷ 5) = 10 + 9 = 19

162 ÷ 9 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Add and **subtract** these numbers.

(6) 684 + 302 = _____

(7) 419 + 358 = _____

(8) 396 + 241 = _____

(9) _____ + 335 = 633

(10) 715 + _____ = 934

(11) 578 – 215 = _____

(12) 934 – 715 = _____

(13) 857 – 193 = _____

(14) 883 – _____ = 287

(15) _____ – 464 = 249

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 6 = _____

(17) 1 x 5 = _____

(18) 9 x 9 = _____

(19) 7 x _____ = 14

(20) _____ x 8 = 56

(21) 27 ÷ 3 = _____

(22) 10 ÷ 5 = _____

(23) 63 ÷ 9 = _____

(24) 56 ÷ _____ = 7

(25) _____ ÷ 8 = 3

(1) **Write** in the missing numbers as you skip count in **7's**.

7, **14**, **21**, 28, **35**, **42**, **49**, 56,
63, 70, **77**, **84**, 91, **98**, **105**

(2) **Skip counting** in **8's, write** the number that is **between** ...

56, **64**, 72 24, **32**, 40 88, **96**, 104

(3) **Find** each **fraction** of these whole numbers.

$^{1}/_{6}$ of 240 = **40** $^{2}/_{3}$ of 360 = **240**

$^{1}/_{7}$ of 350 = **50** $^{3}/_{5}$ of 500 = **300**

(4) **Add** all the numbers in this matrix.

6900	9	650	**7559**
30	250	20	**300**
820	470	4100	**5390**
7750	**729**	**4770**	Total **13249**

(5) **Dividing** large numbers.
Example: 95 ÷ 5 = (50 ÷ 5) + (45 ÷ 5) = 10 + 9 = 19

162 ÷ 9 = (**90** ÷ **9**) + (**72** ÷ **9**)

= **10** + **8** = **18**

Add and **subtract** these numbers.

(6) 684 + 302 = **986**
(7) 419 + 358 = **777**
(8) 396 + 241 = **637**
(9) **298** + 335 = 633
(10) 715 + **219** = 934

(11) 578 – 215 = **363**
(12) 934 – 715 = **219**
(13) 857 – 193 = **664**
(14) 883 – **596** = 287
(15) **713** – 464 = 249

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 6 = **18**
(17) 1 x 5 = **5**
(18) 9 x 9 = **81**
(19) 7 x **2** = 14
(20) **7** x 8 = 56

(21) 27 ÷ 3 = **9**
(22) 10 ÷ 5 = **2**
(23) 63 ÷ 9 = **7**
(24) 56 ÷ **8** = 7
(25) **24** ÷ 8 = 3

(1) **Write** in the missing numbers as you skip count in **8's**.

_____, _____, 24, _____, _____, _____, _____, 64,

72, _____, _____, _____, 104, _____, 120

(2) **Skip counting** in **9's, write** the number that comes **after** ...

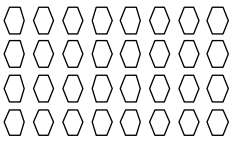
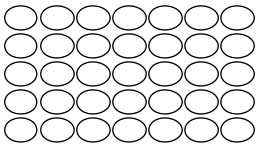
81, _____ 45, _____ 108, _____

(3) **Round** these numbers to the **nearest 1000**.

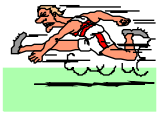
8545 = _____ 3499 = _____

1750 = _____ 26700 = _____

(4) **Shade** in part of each group of shapes to show you understand these fractions.

$\frac{5}{8}$  $\frac{4}{7}$ 

(5) A running race is two laps. If lap 1 is 1840m long and lap 2 is 1260m, how far is the race?



_____ + _____ = _____

Add and **subtract** these numbers.

(6) 136 + 342 = _____ (11) 986 – 684 = _____

(7) 318 + 527 = _____ (12) 777 – 358 = _____

(8) 270 + 455 = _____ (13) 637 – 396 = _____

(9) _____ + 463 = 931 (14) 633 – _____ = 298

(10) 209 + _____ = 688 (15) _____ – 463 = 468

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 3 = _____ (21) 24 ÷ 3 = _____

(17) 5 x 5 = _____ (22) 15 ÷ 5 = _____

(18) 9 x 10 = _____ (23) 45 ÷ 9 = _____

(19) 7 x _____ = 28 (24) 70 ÷ _____ = 7

(20) _____ x 8 = 48 (25) _____ ÷ 8 = 4

(1) **Write** in the missing numbers as you skip count in **8's**.

8, **16**, 24, **32**, **40**, **48**, **56**, 64,
72, **80**, **88**, **96**, 104, **112**, 120

(2) **Skip counting** in **9's, write** the number that comes **after** ...

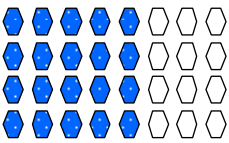
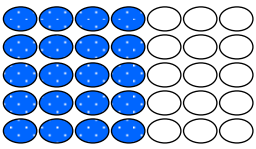
81, **90** 45, **54** 108, **117**

(3) **Round** these numbers to the **nearest 1000**.

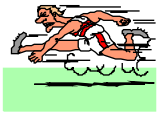
8545 = **9000** 3499 = **3000**

1750 = **2000** 26700 = **27000**

(4) **Shade** in part of each group of shapes to show you understand these fractions.

$\frac{5}{8}$  $\frac{4}{7}$ 

(5) A running race is two laps.
If lap 1 is 1840m long and lap 2 is 1260m, how far is the race?



1840 + **1260** = **3100m**

Add and **subtract** these numbers.

(6) 136 + 342 = **478** (11) 986 – 684 = **302**

(7) 318 + 527 = **845** (12) 777 – 358 = **419**

(8) 270 + 455 = **725** (13) 637 – 396 = **241**

(9) **468** + 463 = 931 (14) 633 – **335** = 298

(10) 209 + **479** = 688 (15) **931** – 463 = 468

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 3 = **9** (21) 24 ÷ 3 = **8**

(17) 5 x 5 = **25** (22) 15 ÷ 5 = **3**

(18) 9 x 10 = **90** (23) 45 ÷ 9 = **5**

(19) 7 x **4** = 28 (24) 70 ÷ **10** = 7

(20) **6** x 8 = 48 (25) **32** ÷ 8 = 4

(1) **Write** in the missing numbers as you skip count in **9's**.

_____, 18, _____, _____, _____, _____, 63, _____,

81, _____, _____, _____, _____, _____, 135

(2) **Skip counting** in **3's, write** the number that comes **before** ...

_____ , 18 _____ , 36 _____ , 60

(3) What is the **place value** of the **BOLD** digit and what does it mean?

Example: In 4.**5**2 the place value is $^{1}/_{10}$'s and it means $^{5}/_{10}$.

9.**4**2 = _____ = _____ 6.2**8** = _____= _____

1.7**5** = _____ = _____ 4.**3**9 = _____ = _____

(4) **Find** the **percentage** of these numbers.

10% of 950 = _____ 25% of 720 = _____

50% of 370 = _____ $33\frac{1}{3}$% of 270 = _____

(5) **Round** these numbers to the **nearest 100**.

292 = _____ 1318 = _____

764 = _____ 1850 = _____

Add and **subtract** these numbers.

(6) 482 + 312 = _____ (11) 794 – 482 = _____

(7) 207 + 398 = _____ (12) 605 – 398 = _____

(8) 382 + 186 = _____ (13) 568 – 382 = _____

(9) _____ + 564 = 722 (14) 722 – _____ = 158

(10) 527 + _____ = 845 (15) _____ – 335 = 298

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 4 = _____ (21) 6 ÷ 3 = _____

(17) 6 x 5 = _____ (22) 35 ÷ 5 = _____

(18) 9 x 1 = _____ (23) 72 ÷ 9 = _____

(19) 7 x _____ = 63 (24) 21 ÷ _____ = 7

(20) _____ x 8 = 16 (25) _____ ÷ 8 = 5

(1) **Write** in the missing numbers as you skip count in **9's**.

9, 18, **27**, **36**, **45**, **54**, 63, **72**,
81, **90**, **99**, **108**, **117**, **126**, 135

(2) **Skip counting** in **3's, write** the number that comes **before** ...

15 , 18 **33** , 36 **57** , 60

(3) What is the **place value** of the **BOLD** digit and what does it mean?
Example: In 4.**5**2 the place value is $^{1}/_{10}$'s and it means $^{5}/_{10}$.

9.**4**2 = **$^{1}/_{10}$'s** = **$^{4}/_{10}$** 6.2**8** = **$^{1}/_{100}$'s** = **$^{8}/_{100}$**

1.7**5** = **$^{1}/_{100}$'s** = **$^{5}/_{100}$** 4.**3**9 = **$^{1}/_{10}$'s** = **$^{3}/_{10}$**

(4) **Find** the **percentage** of these numbers.

10% of 950 = **95** 25% of 720 = **180**

50% of 370 = **185** $33\frac{1}{3}$% of 270 = **90**

(5) **Round** these numbers to the **nearest 100**.

292 = **300** 1318 = **1300**

764 = **800** 1850 = **1900**

Add and **subtract** these numbers.

(6) 482 + 312 = **794** (11) 794 – 482 = **312**

(7) 207 + 398 = **605** (12) 605 – 398 = **307**

(8) 382 + 186 = **568** (13) 568 – 382 = **186**

(9) **158** + 564 = 722 (14) 722 – **564** = 158

(10) 527 + **318** = 845 (15) **633** – 335 = 298

Multiplying and **dividing** in 3's, 5's, 7's, 8's & 9's.

(16) 3 x 4 = **12** (21) 6 ÷ 3 = **2**

(17) 6 x 5 = **30** (22) 35 ÷ 5 = **7**

(18) 9 x 1 = **9** (23) 72 ÷ 9 = **8**

(19) 7 x **9** = 63 (24) 21 ÷ **3** = 7

(20) **2** x 8 = 16 (25) **40** ÷ 8 = 5

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