

MATH SKETCH NOTES

ESTIMATING QUOTIENTS

26

Set 4

- Compatible Numbers & Division

When dividing, compatible numbers are divisors and dividends that are easy to solve because they contain a basic math fact.

$$4,200 \div 6 = 700$$

$32 \div 8 = 4$		$54 \div 6 = 9$
$320 \div 8 = 40$		$540 \div 6 = 90$
$3,200 \div 8 = 400$		$5,400 \div 6 = 900$
$32,000 \div 8 = 4,000$		$54,000 \div 6 = 9,000$
$320,000 \div 8 = 40,000$		$540,000 \div 6 = 90,000$

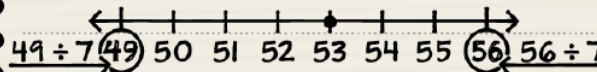
Look for patterns!

Using Compatible Numbers to Estimate Quotients

$$5,365 \div 7$$

$$5,600 \div 7 = 800$$

53 is closest to 56.



1 Look at the divisor & the first two digits of the dividend.

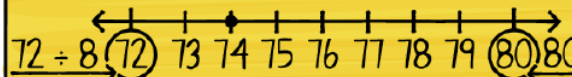
2 Find the math fact that is closest to these numbers.

3 Use the math fact to change the

$$74 \overline{) 526} \div 8$$

$$72,000 \div 8 = 9,000$$

74 is closest to 72.



GRADE 4

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Look for patterns!

Using Compatible Numbers to Estimate Quotients

1 Look at the divisor & find a compatible number.

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Compatible Numbers & Division

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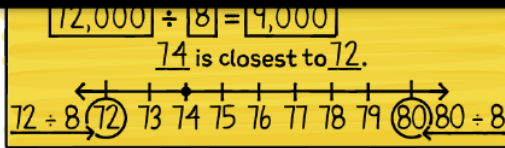
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Look for patterns!

Using Compatible Numbers to Estimate Quotients

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



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dividend and divisor into compatible numbers.



dividend and divisor into compatible numbers and solve.

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STEP-BY-STEP POWERPOINT

ESTIMATING QUOTIENTS

26
Set 1

Compatible Numbers & Division

When dividing, compatible numbers are divisors and dividends that are easy to solve because they contain a basic math fact.

$$4200 \div 6 = 700$$

$54 \div 6 = 9$
$540 \div 6 = 90$
$5,400 \div 6 = 900$
$54,000 \div 6 = 9,000$
$540,000 \div 6 = 90,000$

1 Look at the divisor & the first two digits of the dividend

2 Find the math fact that is closest to these numbers

3 Use the math fact to change the dividend and divisor into compatible numbers and solve.

$$5,600 \div 7 = 800$$

53 is closest to 56.

$49 \div 7 = 7$ $56 \div 7 = 8$

$$74,526 \div 8$$
$$72,000 \div 8 = 9,000$$

74 is closest to 72.

$72 \div 8 = 9$ $80 \div 8 = 10$

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MacBook Pro

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Set 4

- Compatible Numbers & Division

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$$4,200 \div 6 = 700$$

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320	$\div 8 = 40$	
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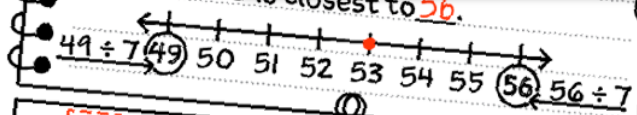
54	$\div 6 = 9$	
540	$\div 6 = 90$	
5,400	$\div 6 = 900$	
54,000	$\div 6 = 9,000$	

DETAILED ANSWER KEY

Using to

$$5,365 \div 8 \approx 5,600$$

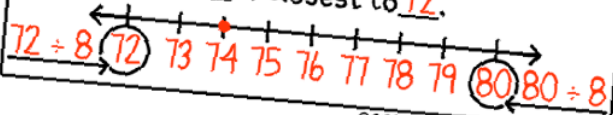
53 is closest to 56.



2 Find the math fact that is closest to these numbers.

$$74,526 \div 8 \approx 9,000$$

74 is closest to 72.



3 Use the math fact to change the dividend and divisor into compatible numbers and solve.