7000 400				
N	21	n	-	
IΝ	aı	11	ᆫ	

Are you ready for Pre-Algebra?

Put your answers in the boxes.

13 Simplify:

(a)
$$\frac{18}{9} =$$

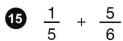
(b)
$$\frac{24}{27} =$$

$$1\frac{5}{6}$$





Perform the operations (Q15 - Q29)





What are the "Divisibility Rules" for each of the following numbers

2				
1				





9 Find the value of
$$2^3$$
.

18 4 -
$$\frac{1}{7}$$





19
$$\frac{8}{9}$$
 x $\frac{2}{3}$



19
$$\frac{8}{9}$$
 x $\frac{27}{32}$

24

20	1	1/4	Х	<u>16</u> 5
				_



Convert each fraction to a decimal: Use the bar for repeating decimals.

(a)
$$\frac{1}{4}$$
 =

(d) 1
$$\frac{1}{2}$$
 =

21 6 ÷
$$\frac{1}{3}$$

(b)
$$\frac{2}{5} =$$

(e)
$$\frac{1}{3}$$
 =

$$\frac{22}{7} \div \frac{1}{21}$$

(c)
$$\frac{1}{8}$$
 =

23
$$1 \frac{1}{4} \div \frac{16}{24}$$



30 Convert each answer in problem 29 to a percent:









31 Find 50% of 300.





32 Find 33 $\frac{1}{3}$ % of 600.



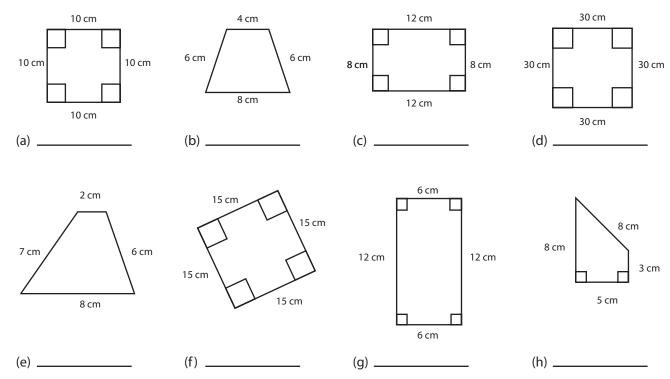
Round your answer to two decimal places. 8 ÷ 4.02



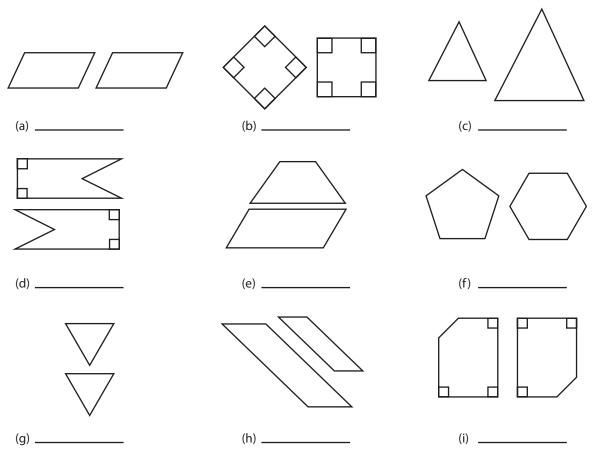
Find 150% of 4.



Name each quadrilateral as a trapezoid, a square, or a rectangle. (Write its most specific name.)



Do these polygons appear to be congruent or similar or neither? (Write C, S, or N.)



Are you ready for Pre-Algebra? (Answers)

- 7
- 2 11
- 3 21
- 4 6
- 5 No, it is composite.
- $6 \quad 18 = 2 \times 3 \times 3$
- 7 2 Last Digit Even
 - 3 Sum of Digits Divisible by 3
 - 5 <u>Last Digit is 5 or 0</u>
 - 10 Last digit is 0
- 8 Exponent is 2 Base is 3
- 9 8
- **10 7**⁴
- 11 1
- 12 9 12 16 24 36 79 81
- **13** (a) 2 (b) $\frac{8}{9}$ (c) $1 \frac{1}{48}$ (d) $4 \frac{2}{3}$
- $40 \quad \frac{11}{6}$

 $\frac{6}{30} + \frac{25}{30} = 1 \frac{1}{30}$

45.09

20.08

26

- **28 1.99**
- $\frac{17}{4} + \frac{11}{5} = \frac{25}{20} + \frac{44}{20} = \frac{69}{20} = 3\frac{9}{20}$
- **29** (a) **0.25**
 - (b) **0.4**
 - (c) **0.125**
 - (d) 1.5
 - (e) $0.\overline{3}$

- $\frac{28}{7} \frac{1}{7} = \frac{27}{7} = 3\frac{6}{7}$
- 19 $\frac{3}{\cancel{8}} \times \frac{\cancel{27}}{\cancel{32}} = \frac{3}{4}$
- 21 18
- **22 66**
- $\frac{7}{8}$
- 20.60 or 20.6
- 18.03 - 2.57

- 30 (a) 25%
 - (b) 40%
 - (c) **12.5**%
 - (d) 150%
 - (e) $33\frac{1}{3}\%$ or $33.\overline{3}\%$
- 31 150
- **32 200**
- **33 6**
- 34 (a) square (b) trapezoid (c) rectangle
 - (d) square (e) trapezoid (f) square
 - (g) rectangle (h) trapezoid
- 35 (a) C (b) C (c) S
 - (d) C (e) N (f) N
 - (g) **C** (h) **S** (i) **C**