Accelerated Math Practice Name Key

Intro to ch. 6 Practice Test Questions Block _____ Date _____

1) Find 20% of 350 $\frac{1}{5}$ 70	2) Find 30% of 40 $\frac{3}{10}$ $\frac{1}{10}$ of 40 = 4 x3 12	3) Write 1.5% as a decimal. 0.015	4) Find 0.2% of 2500 $\frac{1}{5}$% 1% ÷ 5 25 ÷ 5 5
5) Find 125% of 28 100% + 25% 28 + 7 35	6) What percent of X's are outside the box? X X X X X X $\frac{2}{6} = \frac{1}{3}$ $33\frac{1}{3}$%	7) Sara made 25 out of her 30 free throws. What percent is this? $\frac{25}{30} = \frac{5}{6}$ $83\frac{1}{3}$%	8) Write this fraction as a percent. $\frac{10}{16} = \frac{5}{8}$ 62.5%
9) Find 4% of 3000 1% x 4 30 x 4 120	10) Write 0.7 as a percent. 70%	11) Find 15% of 800 10% + 5% 80 + 40 120	12) Find 51% of 6000 50% + 1% $\frac{1}{100}$ 3000 + 60 3060

13) Find 62.5% of 320

$\frac{5}{8}$

$\frac{1}{8}$ of 320 = 40

x5

200

14) Find 80% of 450

$\frac{4}{5}$

$\frac{1}{5}$ of 450 = 90

x4

360

15) Write 25% as a fraction in lowest terms.

$\frac{1}{4}$

16) Jan had 18 out of 24 problems correct on a quiz. What percent is this?

$\frac{18}{24} = \frac{3}{4}$

75%

17) Find 9% of 300

10% - 1%

30 - 3

27

18) What is 37.5% of 160 ?

$\frac{3}{8}$

$\frac{1}{8}$ of 160 = 20

x3

60

19) Find 75% of 840.

$\frac{3}{4}$

$\frac{1}{4}$ of 840 = 210

x3

630

20) Find 150% of 44

100% + 50%

44 + 22

66

21) Find 60% of 55

$\frac{3}{5}$

$\frac{1}{5}$ of 55 = 11

x3

33

22) Find 1.5% of 6000

1% + $\frac{1}{2}$%

60 + 30

90

23) Write 0.07 as a percent.

7%

24) Find 300% of 600.

100% x 3

600 x 3

1800

25) Find 175% of 440

100% + 75%

$\frac{1}{4}$ of 440 = 110 (×3 = 330)

440 + 330

770

26) Find $22.\overline{2}$% of 18

$\frac{2}{9}$

$\frac{1}{9}$ of 18 = 2 (×2 = 4)

4

27) Find $83.\overline{3}$% of 36

$\frac{5}{6}$

$\frac{1}{6}$ of 36 = 6 (×5 = 30)

30

28) Find 80% of 550

$\frac{4}{5}$

$\frac{1}{5}$ of 550 = 110 (×4 = 440)

440

29) Find 20% of 3200

10% × 2

320 × 2

640

30) Find 201% of 1600

200% + 1%

100% × 2 + 16

1600 × 2

3200 + 16

3216

31) Find 0.5% of 800

1% ÷ 2

8 ÷ 2

4

32) Find $16.\overline{6}$ % of 240

$\frac{1}{6}$

40

33) Find 110% of 7200

100% + 10%

7200 + 720

7920

34) Find 5% of 1800

10% ÷ 2

180 ÷ 2

90

35) Find 90% of 600

10% × 9

60 × 9

540

36) Find 37.5% of 4000

$\frac{3}{8}$

$\frac{1}{8}$ of 4000 = 500 (×3 = 1500)

1500

37) Show two ways to get a GOOD estimate for 45% of 4568

Nice #'s

$44\frac{4}{9}$ % of 4500

% Strategy

$\frac{4}{9}$

Steps

$\frac{1}{9}$ of 4500=

500

x 4

Estimate

2000

OR 40% of 4500

2/5

1/5 of 4500=900

x 2 = 1800

Nice #'s

50 % of 4600

% Strategy

$\frac{1}{2}$

Steps

Estimate

2300

THese are just 3 possibilites. Make sure you are using compatible numbers with your fraction strategies

38) Show two ways to get a GOOD estimate for 14.5% of 7019

Nice #'s

12.5 % of 7200

% Strategy

$\frac{1}{8}$

Steps

$\frac{1}{8}$ of 7200

Estimate

900

OR 16 2/3 % of 7200

1/6

1/6 of 7200 = 1200

Nice #'s

15 % of 7000

% Strategy

10%+5%

Steps

700+ 10%÷2

700+350

Estimate

1050

THese are just 3 possibilites. Make sure you are using compatible numbers with your fraction strategies

39) 37.5% of 480 (discount)
3/8

1/8 of 480 = 60
x 3 = 180

sale price is 480-180 = $300

40) fraction is tax over cost
45/900 = 1/20 or 5% tax

41) fraction is chorus over all students
80/480 = 16 2/3% are in chorus

42) 15% of 40
10% of 40 + 5% of 40
4 + 2
$6 tip

43) fraction is amount of discount over original price
50/400 = 1/8 = 12.5% discount

44) fraction is # of correct questions over total questions
64/72 = 8/9 = 88 8/9 %

45) 20% of 70 (discount)
10% x 2
7 x 2 = 14 off
70-14 = $56 sale price

46) fraction is amount of outside X's to all X's
5/8 = 62.5%

47) fraction is # of free throws made to all attempted
28/36 = 7/9 = 77 7/9%

**Be sure to show word ratios for when you have to find percents

**Be sure write the problem you are solving, show mental math strategies used (see # 39), and label with words