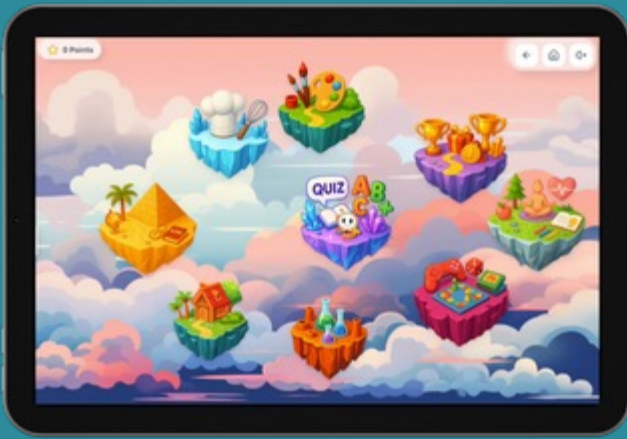


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Discounts - Year 6

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DISCOUNTS AT A GLANCE



1

CONVERT

$$25\% = 0.25 = \frac{1}{4}$$



2

FIND THE DISCOUNT

$$\$80 \times 0.25 = \$20$$



3

FIND THE SALE PRICE

$$\$80 - \$20 = \$60$$



**The discount amount
is not the sale price.**



CHECK: $\$20 + \$60 = \$80$

DISCOUNT DETECTIVE CARDS

FIND THE DISCOUNT

Convert: $25\% = 0.25$

Calculate: $\$80 \times 0.25 = \$20$



FIND THE SALE PRICE

Original price – discount

$\$80 - \$20 = \$60$



FIND THE TOTAL

Sale price $\times$ quantity

$\$60 \times 3 = \$180$



CHECK THE FORMS

$25\% = 0.25 = \frac{1}{4}$

$50\% = 0.50 = \frac{1}{2}$

$75\% = 0.75 = \frac{3}{4}$



Cut apart and keep at your desk.

PERCENT MATCH-UP CARDS

PAGE 1 OF 2

Cut out the cards. Match each percentage with its decimal, fraction and money clue.

PERCENTAGE

10%



DECIMAL

0.10



PERCENTAGE

20%



DECIMAL

0.20



PERCENTAGE

25%



DECIMAL

0.25



PERCENTAGE

40%



DECIMAL

0.40



PERCENTAGE

50%



DECIMAL

0.50



PERCENTAGE

75%



DECIMAL

0.75



PREVIEW

PERCENT MATCH-UP CARDS

PAGE 2 OF 2

Match these cards with the percentage and decimal cards.

FRACTION

$$\frac{1}{10}$$



MONEY CLUE

\$8 off \$80



FRACTION

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



MONEY CLUE

\$18 off \$90



FRACTION

$$\frac{1}{4}$$



MONEY CLUE

\$15 off \$60



FRACTION

$$\frac{2}{5}$$



MONEY CLUE

\$40 off \$100



FRACTION

$$\frac{1}{2}$$



MONEY CLUE

\$45 off \$90



FRACTION

$$\frac{3}{4}$$



MONEY CLUE

\$60 off \$80



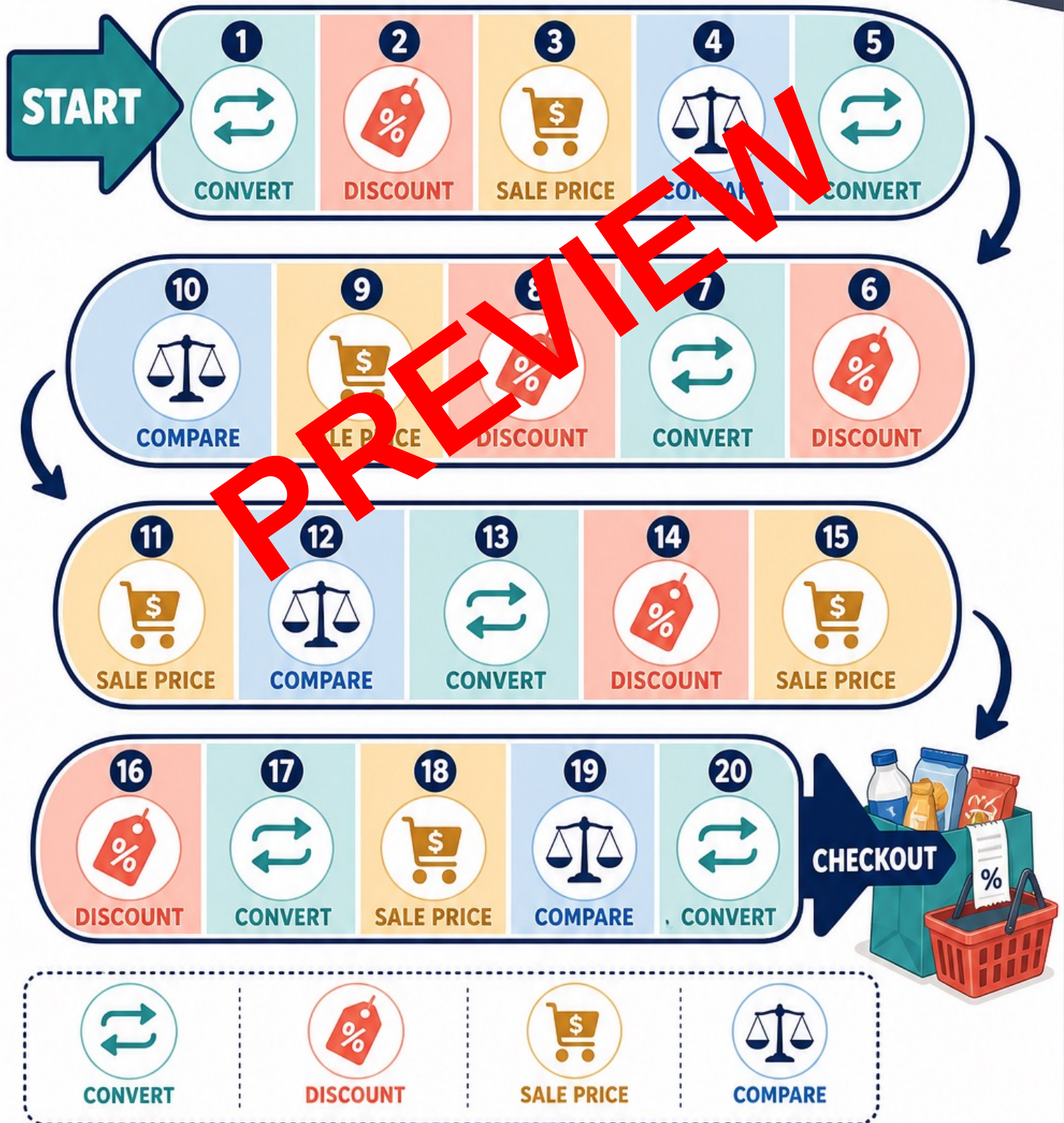
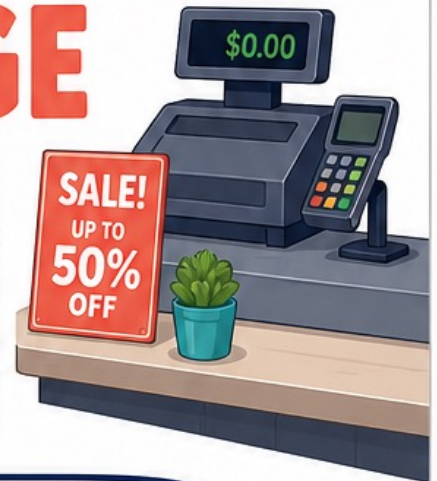
PREVIEW

BARGAIN BASKET CHALLENGE



HOW TO PLAY

1. Roll and move.
2. Read the space colour.
3. Answer a matching challenge card.
Correct: stay. Incorrect: move back 1.



BARGAIN BASKET CHALLENGE CARDS

CONVERT

Write 35% as
a decimal.



CONVERT

Write 0.72 as
a percentage.



CONVERT

Write 25% as
a simplified
fraction.



DISCOUNT

Find 20% of \$90.



DISCOUNT

Find 35% of \$80.



DISCOUNT

Find 12.5% of \$160.



SALE PRICE

\$120 with 25% off.



SALE PRICE

\$250 with 30% off.



SALE PRICE

\$75 with 40% off.



COMPARE

Better discount
on \$100: 25% off
or \$30 off?



COMPARE

Better final price
on \$80: 20% off
or \$15 off?



COMPARE

Are 20% then 10%
off the same as
30% off?



PREVIEW



BARGAIN BASKET RECORDING SHEET



Name: _____

CARD	WORKING	ANSWER	CHECK
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

PREVIEW

TEACHER QUICK KEY

- | | |
|------------------|---|
| 1. 0.35 | 7. \$90 |
| 2. 72% | 8. \$175 |
| 3. $\frac{1}{4}$ | 9. \$45 |
| 4. \$18 | 10. \$30 off |
| 5. \$28 | 11. 20% off; \$64 |
| 6. \$20 | 12. No; the final price is 72% of the original. |



WORKSHEET 1A: PERCENTAGES TO DECIMALS



Name: _____

Date: _____

Write each percentage as a decimal. Show the division by 100 where useful.

1. 5%

2. 12%

3. 25%

4. 37%

5. 50%

6. 62.5%

7. 75%

8. 10%

9. 100%

10. 125%

11. 3%

12. 0.5%

CHALLENGE

Explain why 125% is greater than 1.



WORKSHEET 1A: PERCENTAGES TO DECIMALS



Name: ANSWERS

Date: _____

Write each percentage as a decimal. Show the division by 100 where useful.

1. 5%

1. 0.05

2. 12%

2. 0.12

3. 25%

3. 0.25

4. 37%

4. 0.37

5. 50%

5. 0.5

6. 62.5%

6. 0.625

7. 75%

7. 0.75

8. 90%

8. 0.9

9. 100%

9. 1

10. 125%

10. 1.25

11. 3%

11. 0.03

12. 0.5%

12. 0.005

CHALLENGE

Explain why 125% is greater than 1.

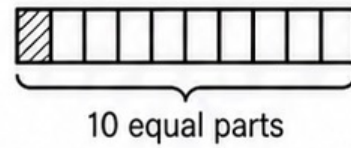
125% = 1.25, which is one whole and one quarter.

WORKSHEET 1B: PERCENTAGES TO FRACTIONS

Name: _____

Date: _____

Write each percentage as a simplified fraction.



1. 5% = _____

2. 10% = _____

3. 15% = _____

4. 20% = _____

5. 25% = _____

6. 30% = _____

7. 35% = _____

8. 40% = _____

9. 45% = _____

10. 50% = _____

11. 75% = _____

12. 125% = _____

CHALLENGE

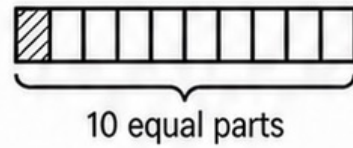
Show two different steps you could use to simplify 30/100.

WORKSHEET 1B: PERCENTAGES TO FRACTIONS

Name: _____ **ANSWERS**

Date: _____

Write each percentage as a simplified fraction.



1. 5% = $\frac{1}{20}$

2. 10% = $\frac{1}{10}$

3. 15% = $\frac{3}{20}$

4. 20% = $\frac{1}{5}$

5. 25% = $\frac{1}{4}$

6. 30% = $\frac{3}{10}$

7. 35% = $\frac{7}{20}$

8. 40% = $\frac{2}{5}$

9. 45% = $\frac{9}{20}$

10. 50% = $\frac{1}{2}$

11. 75% = $\frac{3}{4}$

12. 125% = $\frac{5}{4}$

CHALLENGE

Show two different steps you could use to simplify 30/100.

Divide by 2, then by 5: $30/100 = 15/50 = 3/10$. _____

Or divide numerator and denominator by 10 in one step. _____

WORKSHEET 2: CALCULATING DISCOUNTS



Name: _____

Date: _____

Find the discount amount, not the sale price. Show your working.



DISCOUNT = ORIGINAL PRICE $\times$ PERCENTAGE AS A DECIMAL

1. 10% of \$45

Working:

Answer: _____

3. 30% of \$60

Working:

Answer: _____

5. 40% of \$250

Working:

Answer: _____

7. 60% of \$75

Working:

Answer: _____

9. 75% of \$240

Working:

Answer: _____

2. 25% of \$80

Working:

Answer: _____

4. 15% of \$120

Working:

Answer: _____

6. 35% of \$90

Working:

Answer: _____

8. 12.5% of \$160

Working:

Answer: _____

10. 22% of \$350

Working:

Answer: _____

PREVIEW



CHECK: Is each discount smaller than the original price?

WORKSHEET 2: CALCULATING DISCOUNTS



Name: **ANSWERS**

Date: _____

Find the discount amount, not the sale price. Show your working.



DISCOUNT = ORIGINAL PRICE × PERCENTAGE AS A DECIMAL

1. 10% of \$45

Working:

$$\text{\$45} \times 0.10 = \text{\$4.50}$$

Answer: **\\$4.50**

3. 30% of \$60

Working:

$$\text{\$60} \times 0.30 = \text{\$18}$$

Answer: **\\$18**

5. 40% of \$250

Working:

$$\text{\$250} \times 0.40 = \text{\$100}$$

Answer: **\\$100**

7. 60% of \$75

Working:

$$\text{\$75} \times 0.60 = \text{\$45}$$

Answer: **\\$45**

9. 75% of \$240

Working:

$$\text{\$240} \times 0.75 = \text{\$180}$$

Answer: **\\$180**

2. 25% of \$80

Working:

$$\text{\$80} \times 0.25 = \text{\$20}$$

Answer: **\\$20**

4. 15% of \$120

Working:

$$\text{\$120} \times 0.15 = \text{\$18}$$

Answer: **\\$18**

6. 35% of \$90

Working:

$$\text{\$90} \times 0.35 = \text{\$31.50}$$

Answer: **\\$31.50**

8. 12.5% of \$160

Working:

$$\text{\$160} \times 0.125 = \text{\$20}$$

Answer: **\\$20**

10. 22% of \$350

Working:

$$\text{\$350} \times 0.22 = \text{\$77}$$

Answer: **\\$77**



CHECK: Is each discount smaller than the original price?

WORKSHEET 3: FINDING SALE PRICES

Name: _____ Date: _____



Find the discount first, then subtract it from the original price.



$$\text{SALE PRICE} = \text{ORIGINAL PRICE} - \text{DISCOUNT}$$

1. \$45 with 10% off

Discount: _____

Sale price: _____

3. \$60 with 30% off

Discount: _____

Sale price: _____

5. \$250 with 40% off

Discount: _____

Sale price: _____

7. \$75 with 60% off

Discount: _____

Sale price: _____

9. \$240 with 75% off

Discount: _____

Sale price: _____

2. \$80 with 25% off

Discount: _____

Sale price: _____

4. \$120 with 15% off

Discount: _____

Sale price: _____

6. \$90 with 35% off

Discount: _____

Sale price: _____

8. \$160 with 12.5% off

Discount: _____

Sale price: _____

10. \$350 with 22% off

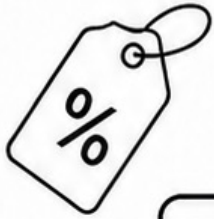
Discount: _____

Sale price: _____

CHECK: Original price — sale price = discount

WORKSHEET 3: FINDING SALE PRICES

Name: **ANSWERS** Date: _____



Find the discount first, then subtract it from the original price.



$$\text{SALE PRICE} = \text{ORIGINAL PRICE} - \text{DISCOUNT}$$

1. \$45 with 10% off

Discount: **\$4.50**

Sale price: **\$40.50**

3. \$60 with 30% off

Discount: **\$18**

Sale price: **\$42**

5. \$250 with 40% off

Discount: **\$100**

Sale price: **\$150**

7. \$75 with 60% off

Discount: **\$45**

Sale price: **\$30**

9. \$240 with 75% off

Discount: **\$180**

Sale price: **\$60**

2. \$80 with 25% off

Discount: **\$20**

Sale price: **\$60**

4. \$120 with 15% off

Discount: **\$18**

Sale price: **\$102**

6. \$90 with 35% off

Discount: **\$31.50**

Sale price: **\$58.50**

8. \$160 with 12.5% off

Discount: **\$20**

Sale price: **\$140**

10. \$350 with 22% off

Discount: **\$77**

Sale price: **\$273**

CHECK: Original price — sale price = discount

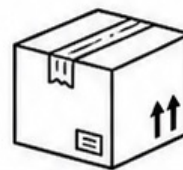
WORKSHEET 4: MULTI-STEP DISCOUNT PROBLEMS

Name: _____

Date: _____



For each problem: find the discount, the sale price, then complete the extra step.



1. Five office chairs cost \$180 each. The store offers 15% off. What is the total sale cost?

FINAL ANSWER: _____

2. Four shirts cost \$50 each. Buying 3 or more gives 60% off each shirt. What is the total for four shirts?

FINAL ANSWER: _____

3. Two toys cost \$25 each. Buying two gives 30% off each toy. What is the total?

FINAL ANSWER: _____

4. A school buys 12 calculators at \$48 each with 25% off. What is the total?

FINAL ANSWER: _____



5. A \$240 order has 20% off, then \$15 shipping is added. What is the final total?

FINAL ANSWER: _____



6. A \$300 item has 20% off, then 10% off the reduced price. What is the final price?

FINAL ANSWER: _____

PREVIEW

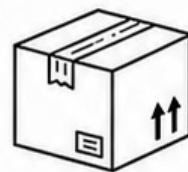
WORKSHEET 4: MULTI-STEP DISCOUNT PROBLEMS

Name: **ANSWERS**

Date: _____



For each problem: find the discount, the sale price, then complete the extra step.



1. Five office chairs cost \$180 each. The store offers 15% off. What is the total sale cost?

$$\underline{\$180 \times 0.15 = \$27}$$

$$\underline{\$180 - \$27 = \$153}$$

$$\underline{\$153 \times 5 = \$765}$$

FINAL ANSWER: \$765

2. Four shirts cost \$50 each. Buying 3 or more gives 60% off each shirt. What is the total for four shirts?

$$\underline{\$50 \times 0.60 = \$30}$$

$$\underline{\$50 - \$30 = \$20}$$

$$\underline{\$20 \times 4 = \$80}$$

FINAL ANSWER: \$80

3. Two toys cost \$25 each. Buying two gives 30% off each toy. What is the total?

$$\underline{\$25 \times 0.30 = \$7.50}$$

$$\underline{\$25 - \$7.50 = \$17.50}$$

$$\underline{\$17.50 \times 2 = \$35}$$

FINAL ANSWER: \$35

4. A school buys 12 calculators at \$48 each with 25% off. What is the total?

$$\underline{\$48 \times 0.25 = \$12}$$

$$\underline{\$48 - \$12 = \$36}$$

$$\underline{\$36 \times 12 = \$432}$$

FINAL ANSWER: \$432



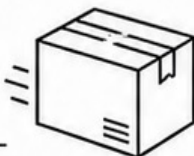
5. A \$240 order has 20% off, then \$15 shipping is added. What is the final total?

$$\underline{\$240 \times 0.20 = \$48}$$

$$\underline{\$240 - \$48 = \$192}$$

$$\underline{\$192 + \$15 = \$207}$$

FINAL ANSWER: \$207



6. A \$300 item has 20% off, then 10% off the reduced price. What is the final price?

$$\underline{\$300 \times 0.80 = \$240}$$

$$\underline{\$240 \times 0.90 = \$216}$$

FINAL ANSWER: \$216

WORKSHEET 5: COMPARE THE DEALS

Name: _____

Date: _____

Calculate both final prices. Circle the better deal and explain the difference.



1. SHOES: Original price \$120

DEAL A: 30% off

DEAL B: \$32 off

Deal A final price: _____

Deal B final price: _____

Better deal: _____

Difference: _____

2. HEADPHONES: Original price \$250

DEAL A: 15% off

DEAL B: \$40 off

Deal A final price: _____

Deal B final price: _____

Better deal: _____

Difference: _____

3. FOUR BOOKS: \$11 each

DEAL A: 25% off all four books

DEAL B: Buy three and get the fourth half price

Deal A final price: _____

Deal B final price: _____

Better deal: _____

Difference: _____

4. BIKE: Original price \$600

DEAL A: 20% off, then a \$30 voucher

DEAL B: 25% off

Deal A final price: _____

Deal B final price: _____

Better deal: _____

Difference: _____

WORKSHEET 5: COMPARE THE DEALS

Name: **ANSWERS**

Date: _____

Calculate both final prices. Circle the better deal and explain the difference.



1. SHOES: Original price \$120

DEAL A: 30% off

DEAL B: \$32 off

$$\$120 \times 0.70 = \$84; \$120 - \$32 = \$88$$

Deal A final price: **\$84**

Deal B final price: **\$88**

Better deal: **Deal A**

Difference: **\$4**

2. HEADPHONES: Original price \$250

DEAL A: 15% off

DEAL B: \$40 off

$$\$250 \times 0.85 = \$212.50; \$250 - \$40 = \$210$$

Deal A final price: **\$212.50**

Deal B final price: **\$210**

Better deal: **Deal B**

Difference: **\$2.50**

3. FOUR BOOKS: \$24 each

DEAL A: 25% off all four books

DEAL B: Buy three and get the fourth half price

$$\$24 \times 4 \times 0.75 = \$72; \$24 \times 3 + \$12 = \$84$$

Deal A final price: **\$72**

Deal B final price: **\$84**

Better deal: **Deal A**

Difference: **\$12**

4. BIKE: Original price \$600

DEAL A: 20% off, then a \$30 voucher

DEAL B: 25% off

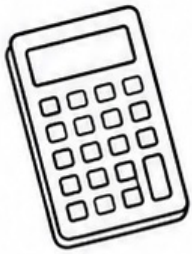
$$\$600 \times 0.80 - \$30 = \$450; \$600 \times 0.75 = \$450$$

Deal A final price: **\$450**

Deal B final price: **\$450**

Better deal: **Same price**

Difference: **\$0**



DISCOUNTS CHECK-IN: PART A



Name: _____

Date: _____

Show working. Give money answers to the nearest cent where needed.

SECTION A: EQUIVALENT FORMS

1. Write 0.45 as a percentage.

Answer: _____

2. Write 35% as a decimal.

Answer: _____

3. Write 60% as a simplified fraction.

Answer: _____

4. Write 1.25 as a percentage.

Answer: _____

SECTION B: CALCULATE

5. Find 15% of \$80.

Answer: _____

6. Find 22% of \$250.

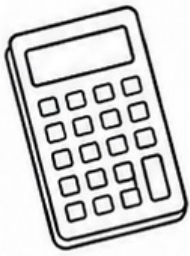
Answer: _____

7. Find the sale price of \$120 after 35% off.

Answer: _____

8. Find the sale price of \$160 after 12.5% off.

Answer: _____



DISCOUNTS CHECK-IN: PART A



Name: ANSWERS

Date: _____

Show working. Give money answers to the nearest cent where needed.

SECTION A: EQUIVALENT FORMS

1. Write 0.45 as a percentage.

Answer: 45%

2. Write 35% as a decimal.

Answer: 0.35

3. Write 60% as a simplified fraction.

Answer: 3/5

4. Write 1.25 as a percentage.

Answer: 125%

SECTION B: CALCULATE

5. Find 15% of \$80.

$$\text{\$80} \times 0.15 = \text{\$12}$$

Answer: \\$12

6. Find 22% of \$250.

$$\text{\$250} \times 0.22 = \text{\$55}$$

Answer: \\$55

7. Find the sale price of \$120 after 35% off.

$$\text{\$120} \times 0.35 = \text{\$42}; \text{\$120} - \text{\$42} = \text{\$78}$$

Answer: \\$78

8. Find the sale price of \$160 after 12.5% off.

$$\text{\$160} \times 0.125 = \text{\$20}; \text{\$160} - \text{\$20} = \text{\$140}$$

Answer: \\$140

DISCOUNTS CHECK-IN: PART B

Name: _____ Date: _____

Show each step and explain your reasoning clearly.

1. Six jerseys cost \$45 each. The team receives 25% off. Find the total sale cost.



FINAL ANSWER: _____

2. A \$400 device is reduced by 20%, then by 10% of the reduced price. Find the final price. Explain why this is not the same as 30% off.

FINAL ANSWER: _____

3. An item costs \$100. Deal A is 30% off. Deal B is \$50 off. Which deal is better and by how much?



FINAL ANSWER: _____

4. A student says: "15% off \$200 means the sale price is \$30." Explain the error and give the correct sale price.

FINAL ANSWER: _____

DISCOUNTS CHECK-IN: PART B

Name: ANSWERS Date: _____

Show each step and explain your reasoning clearly.

1. Six jerseys cost \$45 each. The team receives 25% off. Find the total sale cost.

$$\$45 \times 0.25 = \$11.25$$

$$\$45 - \$11.25 = \$33.75$$

$$\$33.75 \times 6 = \$202.50$$



FINAL ANSWER: \$202.50

2. A \$400 device is reduced by 20%, then by 10% of the reduced price. Find the final price. Explain why this is not the same as 30% off.

$$\$400 \times 0.80 = \$320$$

$$\$320 \times 0.90 = \$288$$

The second discount is applied to \$320, so the total reduction is 28%, not 30%.

FINAL ANSWER: \$288

3. An item costs \$180. Deal A is 30% off. Deal B is \$50 off. Which deal is better and by how much?

$$\text{Deal A: } \$180 \times 0.70 = \$126$$

$$\text{Deal B: } \$180 - \$50 = \$130$$



FINAL ANSWER: Deal A is better by \$4.

4. A student says: "15% off \$200 means the sale price is \$30." Explain the error and give the correct sale price.

$$\$200 \times 0.15 = \$30 \text{ discount}$$

$$\$200 - \$30 = \$170 \text{ sale price}$$

FINAL ANSWER: The correct sale price is \$170.

DISCOUNTS YEAR 6 RUBRIC



Student: _____ Date: _____

CRITERIA	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Equivalent forms	Needs support to identify percentage, decimal and fraction forms.	Converts familiar benchmark percentages	Accurately converts common values and simplifies fractions.	Converts unfamiliar and greater-than-100 values accurately.	Explains and justifies equivalence flexibly.
Discount calculations	Needs support to select an operation.	Calculates familiar benchmark discount with some accuracy.	Accurately calculates discount amounts.	Uses efficient strategies for varied percentages.	Selects, compares and justifies efficient strategies.
Sale price and multi-step reasoning	Needs support to distinguish discount from sale price.	Completes one-step sale-price tasks.	Accurately solves discount and sale-price problems.	Accurately completes quantity and successive-discount problems.	Generalises and checks multi-step solutions.
Comparing deals and explaining	Needs support to compare final prices.	Compares simple deals with prompts.	Calculates both options and explains the better deal.	Explains differences using accurate evidence.	Constructs and defends a clear, efficient comparison.

Teacher notes: _____

Discounts

PREVIEW



Learning Goal

We are learning to calculate discounts and sale prices.

Success criteria

- Convert percentages to decimals and simplify fractions.
- Calculate a discount amount.
- Find a sale price and compare it to the cost.
- Compare deals and explain which is better.



What Does a Discount Mean?

A discount is an amount taken away from an original price.

The original price is the price before the discount.

The discount amount is how much money is reduced.

The sale price is what the customer pays after the discount.

Sale price = original price - discount amount



Convert a Percentage

To calculate a discount, first write the percentage as a decimal.

Divide the percentage by 100:

$$25\% = 0.25$$

$$40\% = 0.40$$

$$7\% = 0.07$$

As a fraction $25\% = \frac{25}{100} = \frac{1}{4}$



Try It: Convert

Convert each percentage to a decimal and a simplified fraction.

1. 10%

2. 20%

3. 35%

4. 50%

5. 75%

Be ready to explain how you simplified each fraction.



Find the Discount Amount

Use multiplication to find a percentage of an amount.

Discount amount = original price $\times$ discount decimal

Example: 25% off \$80

$$\$80 \times 0.25 = \$20$$

The discount amount is \$20.



Try It: Discount Amount

Find the discount amount for each item.

1. 10% off \$60
2. 15% off \$120
3. 30% off \$250
4. 45% off \$180

Show the percent as a decimal before multiplying.



Find the Sale Price

The sale price is the original price minus the discount amount.

Sale price = original price – discount amount

Example: 25% off \$80

Discount: $\$80 \times 0.25 = \$20$

Sale price: $\$80 - \$20 = \$60$



Try It: Sale Prices

Calculate the sale price.

1. \$70 with 20% off
2. \$150 with 30% off
3. \$240 with 15% off
4. \$96 with 25% off

Estimate first, then check to see if your answer is reasonable.



Mental Strategies

Friendly percentages can make discount calculations easier.

10%: divide by 10

5%: halve 10%

20%: double 10%

25%: find one quarter

50%: find one half

75%: find three quarters



Try It Mentally

Use a mental strategy.

1. 10% of \$340
2. 5% of \$260
3. 25% of \$120
4. 50% of \$86
5. 75% of \$200

Note the strategy used for each calculation.



Buying More Than One

When several identical items are discounted, you can:

- find the sale price of one item, then multiply
- find the original total, then apply the discount

Both methods should give the same answer.



Try It: Multiple Items

Four books cost \$32 each. The store offers 25% off every book.

Method 1: Find one sale price, then multiply by 4.

Method 2: Find the original total, then take 25% off.

What is the final cost? Both methods agree.



Successive Discounts

Successive discounts are applied one after another.

A second discount is calculated from the reduced price, not the original price.

Example: \$200, then 20% off, then 10%

$$\$200 \times 0.80 = \$160$$

$$\$160 \times 0.90 = \$144$$



Try It: Two Discounts

A tablet costs \$500. It is reduced by 30%, then by a further 10% of the reduced price.

1. Find the price after the first discount.
2. Apply the second discount.
3. Explain why this is not the same as 40% off.



Compare the Deals

Calculate the final price for every deal before deciding.

For percentage offers, find the discount on the sale price.

For dollar offers, subtract the stated amount.

The better deal has the lower final price. State the difference in dollars.



Which Deal Is Better?

A bicycle costs \$240.

Deal A: 25% off

Deal B: \$55 off

Find both sale prices. Which deal is better, and by how much? Write a complete sentence to justify your choice.



Check for Reasonableness

Estimate before accepting an answer.

Ask yourself:

- Is the discount less than the original price?
- Is the sale price lower than the original price?
- Does a larger discount usually mean a lower sale price?
- Is the decimal placed correctly?



Spot the Unreasonable Answer

A student says 30% off \$90 gives a sale price of \$27.

1. What does \$27 represent?
2. What calculation is still needed?
3. What is the correct sale price?

Explain the error using the words original amount and sale price.



Common Errors

Watch for these mistakes:

- treating the discount amount as the sale price
- multiplying by a whole percentage instead of a decimal
- applying both successive discounts to the original price
- comparing offers without calculating both final prices
- forgetting to round money to the nearest cent



Independent Practice

Choose one item from a catalogue or invent a realistic original price.

1. Apply a percentage discount.
2. Calculate the discount amount and sale price.
3. Add a second item and find the total cost.
4. Create a competing offer or one.
5. Decide which offer is better.



Challenge

A shop offers 20% off a \$375 item, then a further 15% off the reduced price. Another shop offers 32% off the original price.

Calculate both final prices. Which shop is cheaper and by how much?

Explain why adding 20% and 15% does not model the first offer.



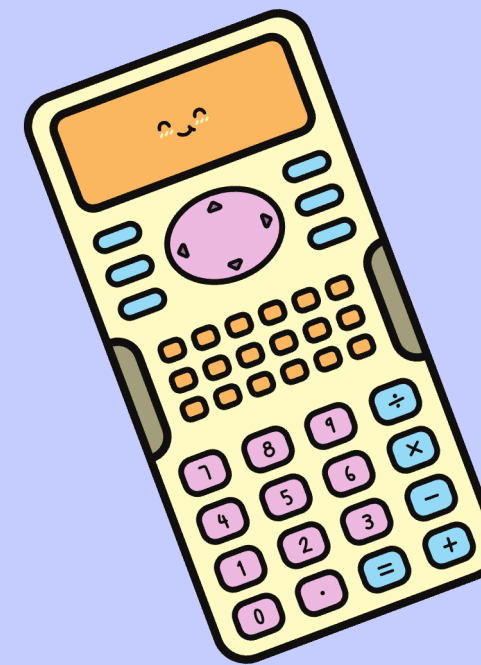
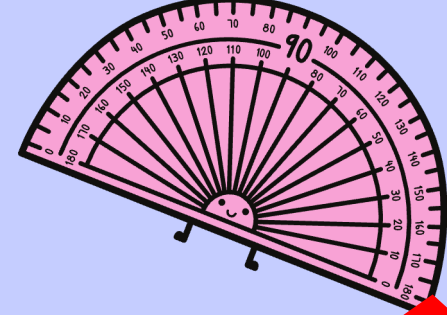
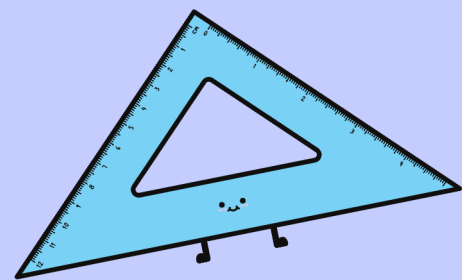
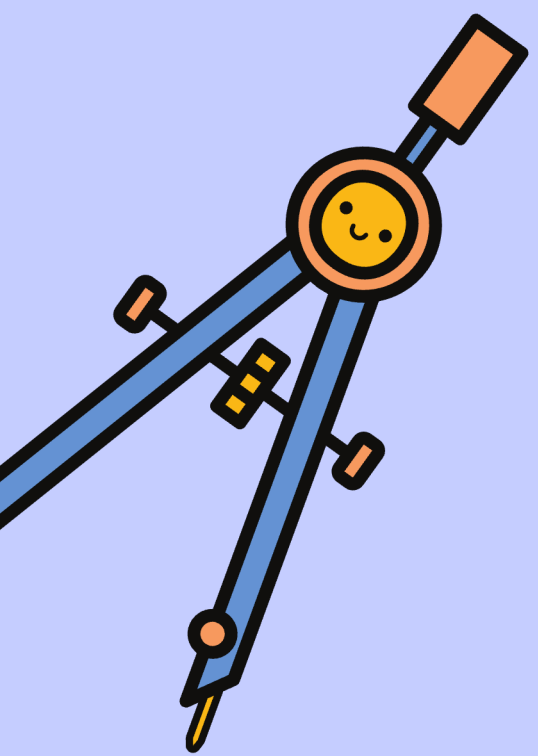
Reflect

Complete these sentences.

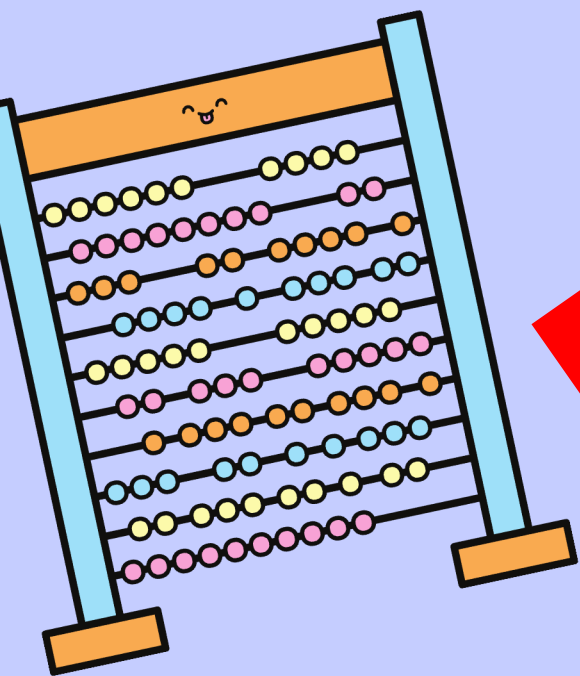
- One strategy that helped me calculate counts was ...
- I know an answer is reasonable when ...
- A mistake I can now avoid is ...
- To compare two decimals, I ...

Share one explanation with your partner.

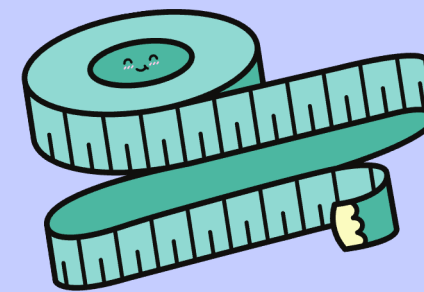
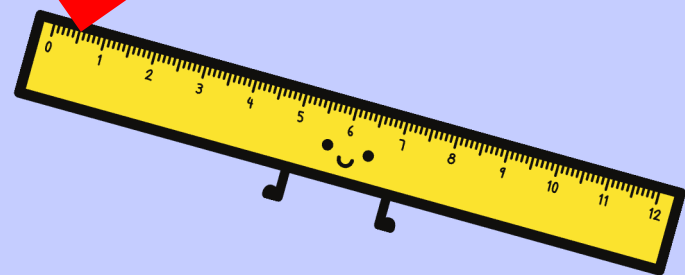




Well Done!



PREVIEW



Discounts Quiz

PREVIEW



Question 1

A jacket costs \$120 and is 25% off.

What is the discount amount?

Show your calculation.



Answer 1

$$\$120 \times 0.25 = \$30$$

The discount amount is \$30.



Question 2

Convert 35% to:

- a decimal
- a simplified fraction



Answer 2

$$35\% = 0.35$$

35/100 simplifies to 7/20.



Question 3

A \$120 item is 30% off. What is the sale price?

- A. \$36
- B. \$72
- C. \$84
- D. \$90



Answer 3

C. \$84

Discount: $\$120 \times 0.30 = \$36$

Sale price: $\$120 - \$36 = \$84$



Question 4

True or false?

A 50% discount is the same as dividing the original price by 2.

Explain your answer.



Answer 4

True.

50% is one half, so a 50% discount leaves one half of the original price.



Question 5

Find 15% of \$240.

Use a mental strategy or multiplication. Show your working.



Answer 5

10% of \$240 = \$24

5% of \$240 = \$12

$\$24 + \$12 = \$36$

15% of \$240 is \$36.



Question 6

An item costs \$180 and is reduced by 20%.

What is the sale price?



Answer 6

Discount: $\$180 \times 0.20 = \$36$

Sale price: $\$180 - \$36 = \$144$

The sale price is \$144.



Question 7

Four books cost \$32 each. Every book is 25% off.

What is the total sale cost for all four books?



Answer 7

One book: $\$32 \times 0.75 = \$24$

Four books: $\$24 \times 4 = \$96$

The total sale cost is \$96.



Question 8

A \$200 item is reduced by 20%, then by 10% of the reduced price. What is the final price?

- A. \$140
- B. \$144
- C. \$150
- D. \$160



Answer 8

B. \$144

$$\$200 \times 0.80 = \$160$$

$$\$160 \times 0.90 = \$144$$



Question 9

A game console costs \$160.

Deal A: 25% off

Deal B: \$35 off

Which deal is better, and how much?



Answer 9

Deal A: $\$160 \times 0.75 = \$120$

Deal B: $\$160 - \$35 = \$125$

Deal A is better by \$5.



Question 10

A student says, “15% off \$200 means the sale price is \$30.”

Explain the error and give the correct sale price.



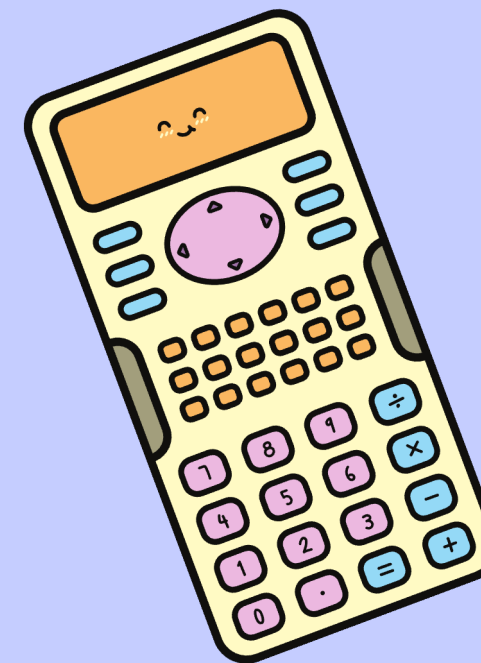
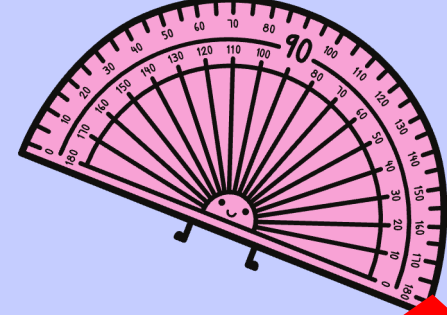
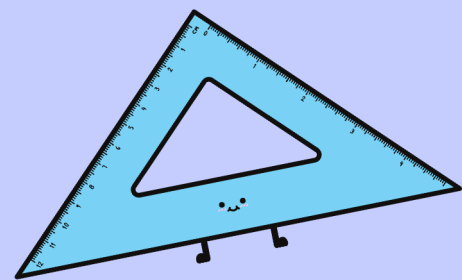
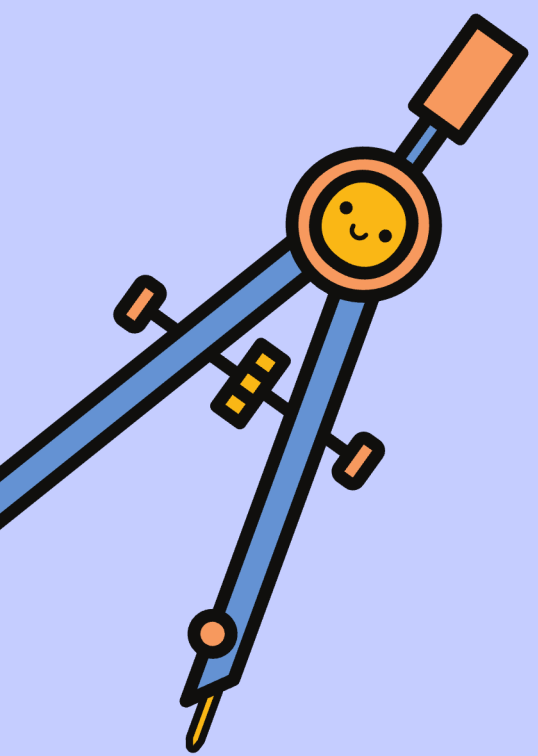
Answer 10

$\$200 \times 0.15 = \$30$ is the discount amount.

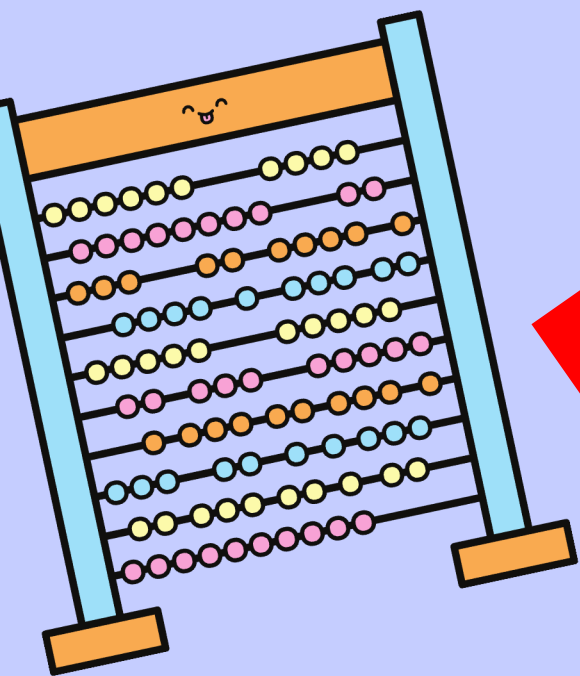
$\$200 - \$30 = \$170$.

The correct sale price is \$170.





Well Done!



PREVIEW

